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Sensitivity and Specificity of the ANAM

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14. ABSTRACT The Purpose of this study is to determine the concurrent validity, sensitivity, and specificity of the Automated Neuropsychiatric Assessment Metric [ANAM] to cognitive impairment following acute concussion in an operational combat theater. Concurrent validity will be assessed by comparing ANAM with conventional neuropsychological tests used for assessing neurocognitive function in individuals with acute concussion (mild traumatic brain injury; mTBI). This particular sub-study is entitled: Establishing a Normative Data Sample in a Military Population for the Defense Automated Neurobehavioral Assessment (DANA).					
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Introduction

Our continuing programmatic research has centered on use of the Automated Neuropsychological Assessment Metric (ANAM) in a military environment, including the sensitivity, specificity and clinical applications for same, and broadened to consider improvements and alternatives to the ANAM in computerized neurocognitive assessment.

One of the studies conducted as part of Grant Number W81XWH-09-2-0057 was *Establishing a Normative Data Sample in a Military Population for the Defense Automated Neurobehavioral Assessment (DANA)* study. This normative study was conducted at Ft. Hood, Texas. The data collected from this study will be helpful in conducting follow-on DANA research to examine pre and post training and or deployment related mTBI event scores in soldiers.

This program conducted under Grant Number W81XWH-09-2-0057 has accumulated one of the most valuable and comprehensive data sets of the present conflict. As mentioned in the previous year's report, multiple research reports are in press or nearing publication. They explore: 1) the Military's Acute Concussion Evaluation (MACE), 2) the ANAM, 3) personality types of soldiers and the prevalence of Post Traumatic Stress Disorder (PTSD) and 4) cognitive processes following combat-related acute concussion. These results have already had a far reaching policy impact in Army Medicine and have been extensively used within the Army by the Army Surgeon General, the Vice Chief of Staff of the United States Army (VCSA) and outside the organization when guiding congressionally mandated testing policy established by the House Armed Services Committee (HASC). This study has also been used as a guide to assist in the drafting of new guidelines and regulations pertaining to mTBI and the awarding of Purple Hearts.

Body

The purpose of the initial grant, W81XWH-09-2-0057, was to examine a set of 2009 data collected in Iraq. As a follow-on to that study and others on mTBI, the current study is to develop a military normative data base for the DANA test. The DANA was designed to use standardized neuropsychological tests sensitive to change in order to detect the presence and resolution of cognitive features associated with concussion/mTBI, deployment-related stress, and concomitant behavioral changes. DANA development was funded by a US Navy Bureau of Medicine and Surgery (BUMED) and developed by AnthroTronix Inc.

The DANA consists of a series of software programs on a durable, portable and "field-hardened" android handheld device (Samsung Galaxy S4) and is powered by re-chargeable lithium ion batteries. The DANA is operational for up to 8 hours of continuous active use before recharge is necessary. The durable and portable design makes the DANA Android platform well-suited for military operational settings. There are three versions of the DANA test: the Standard, the Brief, and the Rapid versions (subsets of Standard). This study administers the comprehensive DANA Standard, which contains all elements of the shorter batteries, allowing us to norm all versions simultaneously, which also appears in the SOW, if the reader has that available.

Because it is rugged, portable, and easy to use by a wide range of healthcare providers, DANA can be administered in theater close to the time of incident. The initial medical provider can administer the DANA hand-held device to a SM to complete who has experienced a traumatic event, either suspected concussion or suspected impairment due to psychological distress or exhaustion. The DANA tests could thus serve as a first level sensitive screen for far forward medic/corpsman at a Forward Operating Base (FOB) or Combat Outpost (COP). DANA Rapid takes approximately 5 minutes to administer, and is most appropriate when evaluating far forward.

Key Research Accomplishments:

- As part of a collaborative effort with BUMED and CDR Tsao while working in conjunction with AnthroTronix Incorporated, the DANA normative data collection protocol began data collection in August 2013. The data collection portion of the protocol was concluded on 30 May 2014 with a total of 814 full data sets completed. This study is current in the data analysis phase.
- An ANAM Response Timing study was conducted to determine accuracy and stability of recorded ANAM (RTs) within specific hardware models and OS configurations.
- Data Collection for the DANA Normative Study commenced in August of 2013 at Ft Hood, TX. Data collection ended for DANA normative study by official notice of Dr. Watson on 08/18/14. A total of 849 participants (868 consented) enrolled by end date of data collection. Of participants enrolled, only 57% of age/gender bins (8/14 bins) reached the minimum of 50 participants. Bins not completed include one male category and five female categories. Table 1 provides the subject enrollment numbers.

	Consented Since Last IRB Review	Total Consented for Life of Study	Screened Since Last IRB Review	Total Screened for Life of Study	Enrolled Since Last IRB Review	Total Enrolled for Life of Study	
TOTALS	103	868	103	868	103	868	

Table 1. Subject Enrollment Numbers

Subject Accrual

This study experienced a low accrual rate. This was due to a limited number of available potential participants for age groups that fall between 45 to 65 years old. Additionally, further difficulty was experienced for females with only 2 out of the 7 age categories reaching the minimum required.

Subject Withdrawals and Complaints

Table 2 outlines the reason(s) for withdrawal and the total number of subjects. No complaints were received throughout the life of the study.

# Withdrawn Since Last IRB Review	# Withdrawn for Life of Study	Reason
0	0	Screen failure
1	19	Subject request to withdraw
0	0	Subject's medical status
0	0	Treatment toxicity
0	0	Survey recipient non-compliance
0	0	Subject non-compliance
0	0	Investigator discretion
0	0	Disease progression
0	0	Lost to follow-up
0	0	Death
0	0	Other (specify):

Table 2. Subject Withdrawals and the reason(s) for withdrawal.

Deviations

A list of all protocol deviation and the processes implemented to prevent their recurrence has been provided in Appendix C.

Unanticipated Problems and Adverse Events

There were no unanticipated problems or adverse events reported.

Privacy

HIPAA and Informed Consent documentation for the DANA Study is stored in the Neurocognitive Assessment Branch (NCAB) of the MEDCOM G3, 5, 7; Building 3661, 3925 Chambers Pass, JBSA Ft Sam Houston, TX 78234. These records will be retained for 7 years or when it is decided that they are no longer required. Records will then be shredded for destruction.

Data analysis progress

All originally uploaded data to Sponsor has been exported with a total of 36 “Books.” The books that have been condensed were entered into SPSS. The participant’s DANA data scores for Subtests and Surveys have been paired up with their ANAM data. Finally, preliminary tables have been created with SPSS with the current inputted data.

Reportable Outcomes

Data was collected on a sample of 849 included soldiers at Ft. Hood, TX using 10 android devices purchased from AnthoTronics, Inc. Data from these tests was forwarded to Anthotronics, Inc. for analysis. A second analysis was conducted by the Ft. Hood research team on 409 soldiers who gave permission to compare their DANA data to their ANAM data. This analysis included descriptive statistics, multiple correlation techniques, and inferential statistics to examine the relationships between subtest scores in each test battery. Nearly 95% of the soldiers were tested on both batteries during the same 12 month period.

The following is a summary of the analysis done by our research team and conducting using SPSS. The raw data (Throughput Scores – the correct response per period of time – for each subtest for each battery) and the conversion of the raw data to standard scores for the analysis is contained in Appendix A to this document.

Specific Aim #1: Normalcy – maximum and minimum ranges were calculated for the primary and throughput measures, along with the mean, standard deviation and variance. Additional measures of Skewness and Kurtosis were calculated. As might be expected with a large sample size, the curves for the throughput measures all reflected approximately normal curves with a very slight hint of positive skewness, in all probability due to a slight reduction in reaction time as age increases. The graphs of subtest data were all shown to be leptokurtic in shape.

Specific Aim #2: DANA versus ANAM comparison – As for the comparison of subtests between the two test batteries, this was done using Pearson’s Product Moment Correlation ($P < .05$) on the Throughput standard scores. There are four subtests in the two batteries that test to be very similar: Simple Reaction Time, Code Substitution, Procedural Reaction Time, and Match to Sample. This is to say that DANA Simple Reaction Time subtest correlated highly with the ANAM; the DANA Code Substitution correlated highly with the ANAM Code Substitution and so forth.

With regard to the analysis of the Age and Gender variables, Spearman’s Rho was run to determine if there were any significant effects of age and gender on the overall subtest correlations and there was not.

All correlational Analysis is shown in Appendix B.

During analysis a participant who tested on 09/18/2013 was discovered to have been an unmarked withdrawal. This brings the total number of withdrawals throughout the duration of the study to 19, with 1 more withdrawal prior to the last IRB Audit and 1 after the last IRB Audit. This was marked additionally on the deviation logs.

Published Research

- o Pending Publication: “Assessment of Acute Concussion in a Combat Environment: Current Validity, Sensitivity and Specificity of the ANAM”
- o Dretsch, M., Coldren, R.L., Kelly, M.P., Parish, R.V., & Russell, M.L. (2015). Eight day temporal stability of the Automated Neurological Assessment Metric (ANAM) in a deployment environment. *Appl Neuropsychol Adult*. 2015;22(4):304-10. doi: 10.1080/23279095.2014.926454. Epub 2014 Dec 22.
- o Dretsch, M., Parish, R.V., Coldren, R.L., Kelly, M.P., & Russell. (2015). No Significant differences between blast and blow concussions in Soldiers in a combat environment across multiple neurocognitive measures and symptoms. *J Neurotrauma* 2015 Aug 31;32(16):1217-22. Epub 2015 Mar 31.
- o Russell, Michael L., Schlegel, Robert E., Walker, Daniel E., Watson, Harvey D., Brown, Tina, and Coldren, Rodney L. (2014). A cautionary tale: timing variability in computerized neurocognitive tests - calibration required. Submitted to 2014 Military Health System Research Symposium (MHSRS).

Comments on administrative and logistical matter

- 10 DANA devices were sent to Jenifer Fauth, Project Director, for use on a follow-on study at Fort Benning, GA.
- The mobile testing unit (RV) purchased by the study was transported to Fort Benning, GA for use on a follow-on study.
- One computer purchased by the study was sent to Jenifer Fauth for use on a follow-on study at Fort Benning, GA.
- A protocol closure report was submitted to the US Army Medical Research and Materiel Command, Office of Research Protections (ORP), Institutional Review Board (IRB) Office on 04/24/2015.

Conclusion

Our first study explored the concurrent validity, sensitivity, and specificity of the ANAM in a combat environment. The results of this study have proven to be valuable as the military moves forward in its ability to diagnosis and treat mTBI. Our initial study cohort has been an asset to other studies to include: fMRI research conducted by Dr. Brody, Washington University, and a perspective cohort study conducted by Dr. Coldren and Dr. Hesse, USUHS. Additional efforts to study the effects of computer programming and testing platforms on the results of ANAMs will impact future computer based testing programs. The results of the current research efforts will help to shape the future of military neuropsychological testing and aid in more accurate diagnosis and treatment for our active duty military population. To date there have been 2 presentations with posters, three published articles and 3 articles submitted for publication or in press under the W81XWH-09-2-0057 grant. New technology is consistently being developed; DANA, developed by AnthroTronix, Inc. has opened the door for the possibility of using portable devices to detect abnormalities in attention often associated with mTBI.

In the case of DANA, which is mounted on a small handheld Android platform (see Appendix D), one might envision that DANA could be placed in the hands of all front-line medics for use in determining time out periods for soldiers that have been exposed to blasts or to determine the need for evacuation to higher echelons of care. Post analysis of the study shows that both DANA and ANAM subtests are strongly correlated and, as such, both are relatively good measures of cognitive function. This study proved that the DANA is a strong candidate for a possible assessment tool to help detect cognitive impairments in Soldiers. Future studies should look at the sensitivity and specificity of the DANA.

Appendix A1 to DANA Final Report_Subtest Name Legend:

DANA		ANAM	
D_SP_T_SS	DANA spatial processing Throughput standard scores	A_MTH_T_SS	ANAM Math Throughput standard score
D_SRT_T_SS	DANA Simple Reaction Time (1st) Throughput standard score	A_SRT_T_SS	ANAM Simple Reaction Time (1st) Throughput standard score
D_SR2_T_SS	DANA Simple Reaction Time (2nd) Throughput standard score	A_SR2_T_SS	ANAM Simple Reaction Time (2nd) Throughput standard score
D_PRO_T_SS	DANA Procedural Reaction timeThroughput standard score	A_PRO_T_SS	ANAM Procedural Reaction Time Throughput standard score
D_M2S_T_SS	DANA Match 2 sample Throughput standard score	A_M2S_T_SS	ANAM Match 2 Sample Throughput standard score
D_CDS_T_SS	DANA Code Substitution Throughput standard score	A_CDS_T_SS	ANAM Code Substitution Throughput standard score
D_CDD_T_SS	DANA Code Substitution Delayed Throughput standard score	A_CDD_T_SS	ANAM Code Substitution Delayed Throughput standard score
D_GNG_T_SS	DANA Go-No-Go Throughput standard score		

Appendix A2

	Gender	AgeRange	ANAM Date	ASRT.M	ASRT.T	ASR2.M	ASR2.T	ACD.M	ACD.S	ACD.M	ACD.D	ACD.T	APRO.M	APRO.T	AM2.M	AM2.S	AM2.T	AMT.H	A.Mood.Via.Mood.Read.Read.D.Mood.D.Mood.A.Mood.A.Mood.A.A.S.P	DANA Date	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME		
DAN00002	1	4	24-Jul-13	233	269.06	262.38	228.68	799.76	72.82	759.29	72.87	759.29	72.87	759.29	72.87	759.29	72.87	759.29	72.87	759.29	30-Jan-14	D.S.P.M <td>D.S.P.T</td> <td>D.S.R.T</td> <td>D.S.R.T</td> <td>D.S.R2.M</td> <td>D.S.R2.T</td> <td>D.P.SJO</td> <td>D.P.R.M</td> <td>D.P.R.T</td> <td>D.P.HQ</td> <td>D.P.C.M</td> <td>D.M2.M</td> <td>D.M2.T</td> <td>D.G.N.G.M</td> <td>D.G.N.G.T</td> <td>D.O.SI</td> <td>D.Concort.D</td> <td>ConcRe.D</td> <td>Conc.Symf.M</td> <td>Conc</td> <td>D.CD.M</td> <td>D.CD.S</td> <td>D.CD.D</td> <td>D.CD.T</td> <td>D.CES</td> <td>DANAM2ANAME</td> <td></td>	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00003	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
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DAN00011	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00012	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00013	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00014	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00015	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00016	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00017	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00018	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00019	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00020	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00021	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00022	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00023	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00024	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00025	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00026	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00027	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	55.28	1080.45	30-Jan-14	D.S.P.M	D.S.P.T	D.S.R.T	D.S.R.T	D.S.R2.M	D.S.R2.T	D.P.SJO	D.P.R.M	D.P.R.T	D.P.HQ	D.P.C.M	D.M2.M	D.M2.T	D.G.N.G.M	D.G.N.G.T	D.O.SI	D.Concort.D	ConcRe.D	Conc.Symf.M	Conc	D.CD.M	D.CD.S	D.CD.D	D.CD.T	D.CES	DANAM2ANAME	
DAN00028	0	5	6-Aug-12	249.72	242.24	228.29	262.13	1085.38	55.28																																							

[illegible]

DANA0703	0	1	2-Apr-14	257.05	233.42	254.11	236.12	1108.06	48.03	1005.91	52.97	564	100.44	1171.25	51.23	3077.87	13.15	75	11.11	16.67	27.78	25	0	83.33	2	6-Jan-14	1670.412	31.59852	307.6	205.8319	264.275	227.2727	2	617.7419	96.79433	0	17	1417.111	42.45283	500.5333	126.5823	1	1	0	0	0	0	0	1862	24.61591	1104	44.91946	0	-2	
DANA0704	0	4	2-Apr-14	238.08	254.15	247.66	242.27	859.61	63.3	1090.03	45.22	538.09	111.5	1472.16	39.21	255.05	29.73	52.78	16.67	22.22	8.33	22.22	13.89	72.22	2	6-Jan-14	1680.945	29.2366	273.254	254.022	259.4634	240.7409	2	687.75	93.81332	1	17	1754.316	26.15279	529.8	122.6808	1	1	0	0	0	0	0	1440.905	35.62164	1144.345	28.39851	0	-2	
DANA0713	1	4	7-Jan-14	233.21	236.94	276.68	216.86	1111.27	53.83	1009.5	58.34	585.58	100.17	1025.72	47.88	3860.32	14.11	27.78	5.56	0	5.56	44.44	16.67	63.89	3	8-Jan-14	1697.2	37.80718	327.1282	186.501	299.875	212.3894	2	616.2381	97.93997	2	18	1486.539	35.32009	518.733	117.4108	8	0	0	0	0	0	0	1395.343	42.98698	1075.372	55.74136	0	0	
DANA0714	1	2	10-Jan-14	267.78	224.06	243.17	246.74	898.31	65.15	1037	57.86	534.58	109.23	246.25	24.37	3447.56	16.01	58.33	19.44	5.56	2.78	13.89	13.89	52.78	2	8-Jan-14	1690.75	36.57422	320.775	198.8734	340.1	182.0941	5	571.4516	107.4399	5	22	1641.107	36.76954	628.928	93.17803	9	0	0	0	0	0	0	1029.243	61.05006	811.5883	76.62835	3	0	
DANA0719	0	4	2-Dec-14	247.75	242.18	249.07	240.02	1011.56	68.4	930.97	63.46	555.9	105.26	1842.15	32.57	2627.1	22.84	38.89	0	0	0	5.56	0	55.56	3	29-Jan-14	1976.211	28.28784	375	163.4078	360.475	174.9271	4	687.5	92.80742	1	20	1835.708	26.33023	650.5333	98.84679	2	0	0	0	0	0	0	1237.986	47.67743	980.0881	61.36076	0	0	
DANA0723	0	5	28-Jan-14	256.64	233.79	273.49	219.39	1425.37	41.7	1273.45	25.01	621.91	96.48	1263.58	42.81	3042.5	19.72	77.78	2.78	0	2.78	2.78	0	69.44	2	30-Jan-14	1691.438	28.06107	320.7023	111.4458	458.6216	123.8389	1	756.25	94.71511	0	17	1746.5	36.54166	499.8163	91.22035	0	0	0	0	0	0	0	1761.243	23.73514	1120.821	46.02235	10	0	
DANA0724	0	5	28-Jan-14	263.82	227.42	262.98	228.16	952.01	63.02	1007.78	54.66	597.06	63.02	2330.06	25.74	4642.53	12.04	33.33	11.11	0	5.56	13.89	25	33.33	2	30-Jan-14	1827.789	32.99005	340.5	197.6968	388.8462	154.3836	3	7	1019	59.2643	3	23	1832.5	24.47107	572.2667	110.9057	9	1	5	1	1	1	1	1363.652	42.42191	1108.372	63.33695	20	1
DANA0725	0	4	26-Apr-13	232.62	257.93	232.38	258.19	1145.19	50.36	1120.69	44.93	508.86	102.84	1070.33	26.82	1521.17	35.5	63.89	58.33	25	33.33	47.22	27.78	72.22	2	30-Jan-14	1713.625	28.3353	334.375	180.1802	312.5	196.0784	6	546.75	115.8301	4	4	1129.25	56.48008	470.6667	135.3511	6	0	0	0	0	0	0	1341.702	41.50084	1126.531	53.467	18	9	
DANA0726	0	4	27-Mar-13	225.7	265.84	225.59	265.96	908.78	62.92	915.31	64.01	468.94	127.95	1844.47	26.76	3019.05	19.87	72.22	0	0	5.56	2.78	2.78	75	2	30-Jan-14	1381.6	43.25883	274.2308	218.9248	320.1	199.3355	11	521.8125	118.2206	8	36	1674.75	39.68816	597.9334	102.6408	15	1	5	3	3	984.263	65.82556	852.25	72.20217	7	10			
DANA0727	0	5	4-Sep-13	233.57	256.88	255.21	255.1	909.25	62.88	1166.53	41.66	586.69	102.27	1397.15	33.57	2386.94	21.64	58.33	0	0	6.11	0	0	6.11	3	31-Jan-14	1343.316	43.00564	361.175	168.0072	328.2633	187.5	4	643.3549	91.60757	4	17	1186.815	47.89357	540.6667	123.7113	0	0	0	0	0	0	0	1401.529	40.21765	1020.836	48.25737	0	4	
DANA0730	0	5	18-Jun-13	247.79	247.12	241.78	248.16	885.74	64.98	911.42	65.83	528.71	108.96	1118.05	57.08	1991.75	24.33	72.22	0	5.56	8.33	22.22	27.78	66.67	2	3-Feb-14	1379.875	38.06503	239.5	258.6207	240.95	267.2606	4	513.7241	100.4772	5	30	1360.115	40.67267	437.0667	137.6147	12	1	5	2	2	1	1164.521	52.96926	987.7941	62.1345	6	7		
DANA0730	1	3	8-Jul-13	240.8	249.17	254.76	236.03	976.82	61.42	1119.03	53.62	699.34	85.79	1050	57.14	3479.9	17.25	47.22	16.67	0	11.11	25	5.56	80.56	3	3-Feb-14	1571.895	31.05039	386	153.3421	448.6797	126.1164	7	830	74.0494	2	37	1585.92	36.94093	598.1	101.0101	11	1	5	2	4	1338.814	43.48366	1132.1	50.25126	0	6			
DANA0732	1	3	8-Jul-13	240.76	240.23	238.29	232.3	937.31	62.73	1043.15	36.78	538.88	113.84	2721.8	22.04	3862.45	15.33	8.33	5.56	19.44	16.67	80.56	5.56	19.44	4	3-Feb-14	1376.053	26.03314	315.3077	195.0067	215.4669	121.5	6	465.9375	106.5015	3	19	2034.5	21.90623	736.4667	89.41878	9	0	0	0	0	0	0	1146.254	59.40475	1020.836	70.7027	0	0	
DANA0734	0	6	27-Mar-13	259.63	231.1	237.7	159.15	1333.7	44.27	932.33	31.47	617.8	92.4	1864.38	27.22	2695.0	24.04	80.56	0	0	0	0	0	80.56	1	5-Feb-14	2609.667	37.74273	357.925	176.2115	312.8	198.0198	4	611.561	96.39623	0	18	1156.632	28.10651	734.0667	85.83691	0	1	5	0	3	1788.118	31.90091	1331.481	35.50296	9	10			
DANA0735	0	4	27-Mar-13	255.95	234.4	234.12	256.27	830.5	74.04	963.39	52.99	1464.84	36.96	2544.32	22.06	69.44	2.78	0	2.78	0	2.78	0	2.78	83.33	1	5-Feb-14	1381.737	44.74097	379.35	160	465.37	136.0544	5	855.7188	108.8633	1	21	1501.182	26.76399	451.0667	134.8315	4	1	3	1	4	1196.696	51.7319	869.4074	54.47942	0	10			
DANA0736	0	4	27-Mar-13	238.37	253.71	274.45	218.62	815.67	73.36	771.57	74.08	497.97	120.49	1173.1	51.23	1869.05	29.3	69.44	0	0	0	8.33	72.22	0	1	5-Feb-14	1994.525	31.25467	341.05	179.3061	341.7	179.6407	3	519.6975	118.3432	0	20	964	67.1085	448.8667	133.8286	2	0	0	0	0	0	0	985.3621	59.2173	819.5151	70.19783	4	10	
DANA0737	0	5	27-Mar-13	250.38	239.64	271.12	221.3	1009.55	63.62	1224.97	40.8	522.53	114.83	1593.63	35.45	1871.89	29.45	77.78	2.78	8.33	5.56	11.11	91.67	2	5-Feb-14	1760.222	32.23055	407.0769	132.5028	477.1786	76.36164	3	158.6774	114.0824	0	26	1291.714	34.24378	569.0714	100.9009	2	0	0	0	0	0	0	1370.106	42.41034	1168.191	41.80737	0	10		
DANA0738	0	4	27-Mar-13	237	253.1	264.45	226.5	1347.11	43.37	1278.97	36.18	732.94	137.3	3191.37	18.44	4937.99	12.85	72.22	11.11	0	25	11.11	78.88	72.22	0	1	5-Feb-14	2367.529	20.66032	274.85	221.4022	274.2308	225.8887	3	326.5938	118.3814	0	19	1603.111	35.14481	433.3333	143.1801	6	0	0	0	0	0	0	1382.171	45.36029	1119.972	67.00167	12	10
DANA0740	0	4	27-Mar-13	223.44	268.53	230.72	260.05	1070.3	54.6	1424.46	40.64	581	96.4	1465.53	39.44	2841.53	21.03	86.11	30.56	2.78	13.89	8.33	16.67	66.67	1	6-Feb-14	2228.684	28.65041	303.225	209.7902	482.6667	117.2345	2	537.9063	117.6471	3	19	1593.423	32.23807	783.1429	74.46809	5	1	5	0	1	1396.93	44.02282	1366.121	43.58162	24	10			
DANA0741	0	4	27-Mar-13	205.79	251.55	199.34	300.99	898.82	63.06	867.42	63.17	434.78	138	940.11	60.83	1730.44	21.66	88.89	5.56	0	8.33	0	100	0	6	6-Feb-14	1155.2	44.37769	312.025	194.3876	278.925	221.4022	7	477.8438	136.8301	0	17	1034.641	61.92135	378	159.7545	0	0	0	0	0	0	1192.986	53.36993	935.6286	76.40253	21	16		
DANA0742	0	6	10-Feb-14	234.22	256.16	307.93	194.85	983.69	61.31	1278.97	40.85	630.2	89.62	1461.8	22.57	2189.35	27.41	27.78	2.78	0	0	38.89	8.33	47.22	4	10	11-Feb-14	1522.167	25.13381	369.225	170.9402	378.0526	151.3344	6	780.1935	106.5609	0	18	1647.65	32.77634	551.0667	115.6069	5	1	5	0	1	1669.9	36.20939	1209.96	34.75118	1	0		
DANA0748	1	3	29-Apr-10	233.12	257.37	278.98	215.07	995.56	59.28	1286.78	46.63	537.06	111.72	1893.2	21.49	3761.47	15.23	36.11	0	0	22.22	44.44	0	52.78	4	11-Feb-14	1960.15	32.16296	334.825	186.3354	315.0833	171.1569	4	601.75	100.2506	9	20	1556.158	33.12993	85.8666	98.19968	0	0	0	0	0	0	0	1482.197	41.97706	1474.849	39.58268	13	45	
DANA0752	0	4	18-Feb-14	248.1	241.84	235.62	254.64	1046.09	55.15	1020.35	55.99	608.8	94.71	1373.4	34.53	3625.58	15.7	36.11	11.11	2.78	0	13.89	11.11	44.44	2	18-Feb-14	1993.945	29.48403	278.9	219.8702	317.375	189.8734	3	651.1163	96.8523	0	19	1607.48	32.67994	534.6	117.4168	1	1	5	3	4	1418.725	43.69301	1033.706	58.93569	0	0			
DANA0753	0	4	18-Feb-14	271.56	220.12	2																																																	

Appendix A3

DANA	D_SP_T_SS	D_SRT_T_SS	D_SR2_T_SS	D_PRO_T_SS	D_M2S_T_SS	A_SRT_T_SS	A_SR2_T_SS	A_CDS_T_SS	A_CDD_T_SS	A_PRO_T_SS	A_M2S_T_SS	A_MTH_T_SS	D_CDS_T_SS	D_CDD_T_SS	D_GNG_T_SS
DANA0002	68.360322	87.017163	83.576595	101.625926	92.847287	82.471154	102.201299	68.556604	62.98	93.34507	66.805	86.40625	85.005821	69.522256	90.155806
DANA0003	108.152733	93.095748	99.297828	91.651967	101.82891	94.370253	84.460191	89.882353	91.454225	97.097826	84.266304	108.346774	110.850941	107.533637	91.662727
DANA0005	92.200906	72.119258	88.726521	82.880627	65.113962	82.903846	86.397727	69.801887	74.19	86.764085	70.12	93.296875	59.276759	72.687812	77.153744
DANA0006	78.885476	70.961221	70.304532	104.136333	94.202196	97.731013	79.606688	99.132353	109.971831	89.706522	80.125	106.774194	104.505834	90.167386	73.608226
DANA0010	70.8682	76.956038	71.619973	72.910307	75.789642	106.636486	96.154624	83.671875	86.257692	79.866197	85.196429	64.072581	82.841142	82.072277	177.36489
DANA0012	76.687324	115.768511	93.997942	81.310167	90.007559	97.645	98.574503	82.3	71.894231	82.021429	60.75	98.101563	89.16023	86.600561	88.168238
DANA0013	103.075612	90.179678	105.44267	100.514515	99.542521	91.51	90.02649	82.272727	73.663462	82.921429	99.486111	107.828125	85.275959	78.536004	95.849594
DANA0014	120.241925	86.685616	76.82644	87.55784	105.019428	83.345	92.192053	76.763636	80.057692	80.864286	116.972222	86.007813	86.829938	76.898833	91.759159
DANA0015	80.855114	87.735547	87.685088	91.699731	106.631625	110.455	95.504967	83.486364	75.173077	95.596429	82	78.25	82.819264	84.201314	186.812866
DANA0016	107.633846	89.078616	117.874911	82.767835	93.39322	102.063514	100.342486	92.171875	107.292308	79.126761	103.928571	76.387097	87.844613	87.409464	81.268
DANA0017	98.545561	102.586701	104.256	89.682458	87.718265	107.22007	108.343137	110.982143	98.794304	105.764286	106.490909	93.927419	93.416703	94.14567	182.375413
DANA0018	104.547558	103.026986	103.598301	101.583382	99.785466	86.880282	103.544118	103.388393	90.506329	109.910714	107.895455	92.064516	107.194292	92.597333	185.138584
DANA0019	64.394272	102.586701	77.43484	79.430114	71.828197	85.977113	108.279412	85.616071	79.028481	106.407143	104.363636	124.653226	60.810338	67.131131	71.214746
DANA0020	104.075871	82.742176	86.515554	81.237058	89.364074	80.885	89.440397	98.445455	96.894231	83.125	93.944444	104.289063	101.11974	75.548265	96.220869
DANA0021	77.984181	108.282481	112.796681	82.063409	78.913158	119.485759	152.10828	90	72.503521	107.945652	62.125	105.612903	71.073191	58.32302	119.445605
DANA0022	110.186145	96.349464	92.070432	82.848559	114.128853	95.663732	90.759804	89.580357	82.151899	83.017857	94.9	95.814516	77.008666	68.311713	102.610229
DANA0025	79.24763	97.216659	88.467894	82.902345	107.286495	101.889241	100.291401	96.823529	93.102113	81.956522	103.048913	93.612903	87.540542	87.893927	87.610792
DANA0026	77.006951	104.000083	106.977491	101.103503	88.106259	130.565	117.92053	87.754545	94.721154	106.578571	80.694444	98.5	84.428007	105.367431	92.96492
DANA0027	92.646942	106.561347	102.435057	89.988029	110.239375	87.235577	85.925325	111.518868	106.23	90.873239	97.435	103.9375	102.501084	94.620095	83.577912
DANA0028	93.234788	88.462963	95.58821	88.730986	95.557588	97.49	102.55298	101.240909	110.278846	109.610714	117.097222	96.671875	82.649183	87.066442	91.618679
DANA0030	94.787387	100.283574	90.87667	99.769665	111.210096	118.433099	114.759804	107.245536	92.272152	103.353571	111.522727	58.629032	72.846269	72.823541	85.563424
DANA0031	84.987238	67.524637	92.941449	98.309894	122.503786	122.041892	126.328035	122.734375	115.196154	146.658451	109.232143	113.620968	109.435824	86.973285	102.840771
DANA0032	109.830559	80.338445	85.152077	88.46634	108.296605	97.392384	91.608491	113.901786	115.673077	128.077465	114.397321	85.181034	88.581768	95.788072	100.539365
DANA0033	61.032954	76.298866	75.158346	86.860107	70.285616	106.83	88.715232	84.072727	85.778846	98.328571	74.388889	80.804688	69.095316	75.588799	75.28
DANA0034	93.044005	98.749272	89.397654	88.967891	85.537591	89.543269	90.673701	85.75	118.43	76.992958	95.755	94.914063	76.415202	72.252452	94.014098
DANA0035	91.195078	84.58763	68.800194	86.049127	77.976762	94.216549	91.27451	98.392857	102.800633	83.778571	84.168182	76.556452	89.627072	79.751441	92.710353
DANA0036	83.042258	124.140053	111.266166	115.653601	96.254583	104.119718	102.955882	87.34375	88.768987	115.289286	100	83.137097	83.504335	107.461773	82.42478
DANA0037	130.037653	96.933408	95.419634	133.234164	86.556366	84.87027	75.276012	117.25	110.038462	103.221831	96.428571	112.774194	128.353159	114.100815	104.555292
DANA0038	83.091765	87.80433	104.962516	93.884794	102.498811	112.390845	115.803922	120.303571	94.844937	100.867857	95.963636	117.903226	104.573799	95.448766	93.595079
DANA0042	95.71833	99.784834	100.267449	109.814644	88.383314	105.527094	93.746815	103.987805	82.592742	139.555944	96.230769	103.12931	110.786952	92.705356	110.151667
DANA0043	85.981084	82.185348	87.858792	87.944686	111.474367	117.255282	111.078431	89.700893	89.205696	94.878571	107.404545	88.508065	103.55349	103.853705	87.316662
DANA0046	86.533838	82.806021	75.369754	89.763603	79.141356	80.24	80.246689	80.131818	88.528846	94.032143	83.069444	98.453125	88.290897	85.310851	78.544438
DANA0047	85.179626	82.438276	81.47033	81.430167	79.644934	88.887324	96.176471	104.044643	111.962025	86.810714	72.440909	91.048387	106.989505	86.312161	67.784405
DANA0051	95.533603	75.587675	71.663225	73.920826	114.404191	113.846519	92.81051	103.529412	107.119718	98.315217	103.277174	125.887097	117.980435	116.019842	185.870178
DANA0052	104.991432	114.816928	106.977491	103.838525	82.943232	99.06	102.498344	73.804545	75.057692	85.610714	67.236111	72.273438	86.329627	128.231094	91.759159
DANA0053	102.415493	98.785141	79.448875	91.155449	77.544282	92.985577	92.51461	96.801887	88.4	96.355634	97.165	85.609375	98.246541	90.187476	86.654292
DANA0054	100.724384	95.568256	92.070432	83.655424	83.99841	97.940141	108.019608	104.848214	95.803797	93.625	92.8	112.435484	114.318968	109.796984	92.486829
DANA0055	95.634398	93.603022	83.01719	81.48541	58.646315	85.125	76.124172	96.890909	112.586538	87.421429	102.777778	83.335938	95.253096	106.288797	92.864975
DANA0057	103.383103	77.827263	64.116094	77.684875	80.214412	97.519231	111.902597	135.533019	110.29	108.302817	110.44	104.054688	81.572116	84.444103	73.037456
DANA0058	46.806855	104.93265	100.720532	87.243627	75.983711	99.836538	108.469156	62.216981	130.52	89.584507	77.5	81.015625	64.873344	99.268474	110.407143
DANA0059	108.010354	102.033593	104.851383	99.42442	101.596195	92.740385	97.959416	101.95283	107.62	176.732394	113.215	114.320313	115.299301	122.906047	103.439452
DANA0060	106.43204	82.014542	71.906271	102.754057	105.031474	98.615385	95.003247	92.613208	102.34	109.390845	107.8	113.429688	101.314438	121.515001	96.075878
DANA0061	97.251387	91.558141	87.020321	92.923558	100.902789	92.6	100.486755	86.581818	97.038462	94.385714	91.208333	110.382813	103.59122	80.024505	85.926325
DANA0063	90.02564	93.657545	100.883093	94.274408	106.100996	81.375	102.960265	103.068182	104.134615	111.592857	87.222222	114.15625	97.999098	92.193696	107.260752
DANA0064	91.663217	97.880646	88.906987	89.661005	132.703228	108.170775	96.789216	89.901786	88.85443	86.296429	123.345455	87.346774	84.104415	94.670202	102.610229
DANA0067	93.125864	81.609781	83.408769	83.25316	77.794562	88.629808	95.665584	70.523585	73.21	84.028169	67.18	97.773438	81.94441	78.696847	80.153819
DANA0068	96.98996	116.944364	112.128905	109.39466	100.163087	112.085	107.445364	94.872727	90.259615	106.182143	105.444444	113.21875	106.836828	108.417606	118.097569
DANA0069	93.439351	85.523672	83.683242	92.620293	90.074829	80.600352	83.039216	112.75	92.348101	92.928571	102.468182	94.991935	111.11514	110.22867	99.394087
DANA0070	101.009071	74.007306	80.105425	70.729113	71.400887	91.192308	97.350649	94	94.42	79.971831	68.065	107.5	106.715466	109.775064	73.363232

DANA0071	65.191769	120.903317	120.350921	105.169977	111.616461	101.34	102.324503	91.504545	82.634615	108.785714	105.680556	108.296875	115.109316	88.118855	84.409225
DANA0072	123.770179	105.213155	100.638281	89.649402	94.704436	98.175	102.796358	93.768182	104.971154	94.814286	124.611111	103.023438	99.358164	122.730163	105.809071
DANA0073	111.514953	102.282125	94.56884	103.047731	95.065502	98.69	99.63245	73.572727	69.75	90.464286	88.430556	118.46875	101.874785	93.924551	99.773489
DANA0074	62.285999	86.21667	120.414133	90.343602	86.761653	83.172535	82.72549	76.522321	92.433544	84.046429	72.672727	79.895161	95.0056	92.218913	120.149508
DANA0075	112.585684	112.778923	125.083395	113.31651	101.178072	113.357595	135.312102	125.691176	111.366197	126.706522	110.222826	118.266129	126.197837	130.636929	135.935074
DANA0077	98.400523	87.887907	92.901111	85.770438	83.947485	94.640823	84.574841	89.558824	101.753521	106.663043	103.86413	92.08871	110.21446	105.907129	76.823368
DANA0078	117.149496	79.037425	85.831325	107.441122	107.881149	85.337025	97.611465	106.382353	92.753521	102.684783	100.831522	104.040323	118.062458	110.965944	94.305818
DANA0079	111.790118	72.856037	87.970321	83.523577	85.211729	113.462025	89.729299	92.191176	108.25	106.98913	116.353261	91.145161	95.602363	77.6697	90.283122
DANA0080	91.182353	104.76175	82.826028	114.711521	109.431631	89.1	92.902318	98.895455	110.826923	89.307143	112	104.570313	102.035093	107.639177	86.382818
DANA0081	87.035196	116.156833	88.507507	104.658381	101.462231	171.634494	124.291401	153.617647	126.102113	149.228261	124.538043	123.540323	127.703199	89.657787	94.121959
DANA0082	87.20592	100.025879	83.485682	132.500929	117.313685	117.165493	118.382353	116.21875	120.164557	103.171429	121.068182	122.572581	109.425966	110.921482	100.934218
DANA0083	119.076596	111.210895	90.703867	114.559145	102.021899	110.452465	114.034314	123.53125	105.686709	125.339286	106.368182	112.314516	119.889756	116.058672	112.747534
DANA0084	94.450559	116.417977	114.993152	99.275642	99.632415	95.679577	97.995098	100.709821	111.335443	124.610714	134.731818	103.290323	111.950304	97.704333	39.278818
DANA0085	93.539823	105.45795	125.205922	89.759044	113.15135	119.003521	123.284314	88.107143	86.822785	100.010714	83.554545	95.887097	110.315737	112.401758	108.288844
DANA0086	111.673828	126.622413	119.19753	106.832685	122.780259	111.97	139.407285	106.75	112.971154	138.517857	115.902778	107.851563	108.331233	120.772059	106.68637
DANA0088	88.057727	98.490127	92.089874	74.986277	82.679605	106.595	102.076159	54.222727	65.105769	77.478571	85.930556	100.539063	70.452124	59.378196	80.105942
DANA0097	91.981692	72.473414	68.878479	85.882558	106.439779	82.85	76.874172	99.481818	78.288462	108.025	106.916667	113.007813	99.508945	78.060027	77.477694
DANA0098	93.358255	73.419882	124.441557	97.806676	128.527603	103.065	127.789735	110.240909	115.855769	126.432143	131.555556	129.414063	121.419393	113.315359	126.845653
DANA0099	117.917161	107.347182	85.468836	101.916724	110.347703	107.045	116.038079	112.436364	110.932692	97.321429	98.194444	117.039063	117.384785	109.066731	99.3851
DANA0101	118.89485	110.871496	115.180202	128.691363	104.48372	131.947115	131.855519	113.386792	120.23	128.774648	117.895	107.335938	110.206842	121.047487	109.438704
DANA0102	96.710653	81.49369	76.966823	71.165317	104.409428	115.865	119.226821	100.559091	100.798077	89.553571	110.819444	81.015625	72.450835	110.624338	86.306249
DANA0104	90.995216	89.400727	141.631691	99.202115	137.977819	90.336538	108.279221	77.245283	72.29	84.260563	104.8	81.71875	73.520831	88.195936	92.232211
DANA0105	112.171134	117.841069	115.219092	113.1644	96.790177	87.05	91.317881	84.85	97.009615	94.567857	87.625	111.226563	105.779872	95.826027	100.623237
DANA0106	104.918005	72.388016	83.201502	62.981504	96.887365	96.05538	93.761146	71.470588	79.454225	78.315217	73.48913	105.056452	71.266766	65.956427	79.61294
DANA0107	119.107941	101.566398	105.373708	110.836097	97.198883	115.09507	105.171569	99.424107	92.39557	106.342857	122.827273	115.556452	114.238218	106.6167	103.157123
DANA0108	99.606292	76.831482	79.507179	81.541285	81.209004	96.075704	103.151961	100.455357	106.873418	90.260714	91.6	112.048387	105.285959	110.823784	85.563424
DANA0111	85.156896	102.576547	96.384798	103.800333	90.466027	112.004808	108.206169	92.79717	90.11	95.690141	101.44	114.554688	105.162273	99.301394	81.429954
DANA0112	101.619926	110.342943	123.410525	117.826207	102.561689	104.584507	97.897059	107.580357	120.952532	119.467857	110.595455	98.330645	113.874295	77.000553	140.72211
DANA0116	81.925573	120.869621	95.646166	114.539337	90.09311	101.197115	121.185065	110.20283	95.61	102.038732	125.395	110.382813	100.469035	97.831672	109.367384
DANA0120	92.941141	116.542213	114.974983	105.855368	86.45012	94.012162	77.261561	96.78125	108.503846	78.302817	105.428571	101.766129	71.97197	112.348335	72.80133
DANA0122	110.513655	99.891908	90.713349	88.124913	96.361505	90.9375	93.522727	98.740566	117.4	86.911972	100.075	75.273437	109.116736	125.671698	98.712178
DANA0126	92.039622	94.553063	91.81428	111.595153	100.694712	91.551351	98.647399	72.28125	59.603846	105.440141	91.553571	102.395161	102.294136	74.043888	85.896949
DANA0128	125.821459	91.12778	86.234549	73.601897	81.212788	103.101351	96.640173	96.21875	113.8	101.795775	122.589286	88.483871	78.631108	114.873735	85.007189
DANA0130	100.189815	88.26725	87.202187	87.216139	74.492785	104.001351	97.546243	99.46875	80.869231	97.380282	86.964286	83.790323	105.907471	81.861267	81.462136
DANA0132	79.467684	71.334651	73.654728	76.943212	90.763053	76.47	81.47351	94.736364	104.932692	80.425	87.5	89.921875	85.657957	88.188807	70.303465
DANA0134	92.611599	83.483058	108.250748	91.707383	84.019747	112.045	141.980132	95.472727	121.25	131.875	118.361111	118.046875	103.491559	112.465177	192.776276
DANA0136	100.740242	97.691491	127.308903	73.781202	100.372452	101.616197	107.088235	109.816964	124.018987	100.653571	95.377273	111.056452	77.998111	89.851768	89.728315
DANA0137	82.818869	99.332101	76.044639	85.048122	63.616711	82.18038	87.636943	62.676471	59.848592	77.217391	82.456522	93.491935	88.145168	69.601674	65.771158
DANA0138	109.91491	84.806963	83.430918	77.016312	93.707891	90.596154	82.939935	83.726415	93.58	76.855634	100.525	76.84375	70.077784	78.768819	104.393492
DANA0139	112.00696	97.507991	101.764846	111.138751	99.142767	94.313291	93.178344	100.705882	101.267606	93.304348	97.277174	103.241935	111.41322	113.285609	81.791323
DANA0140	86.904837	89.112276	81.479017	99.3125	90.675574	85.640823	90.106688	80.941176	69.070423	84.206522	80.255435	86.887097	87.109844	80.369626	85.230067
DANA0141	69.417778	83.694172	78.883419	79.533713	91.517324	90.598592	98.651961	78.089286	83.281646	90.903571	78.018182	67.362903	62.917474	66.482175	78.845374
DANA0142	59.559136	84.420761	90.75619	103.992565	80.12462	89.771622	90.761561	77.5625	72.042308	74.521127	69.5	92.887097	68.474165	78.656143	69.604965
DANA0143	70.533407	82.910282	90.313681	73.344219	72.688165	107.599684	98.552548	91.352941	96.21831	84.663043	106.456522	104.475806	69.746092	90.627752	70.90373
DANA0144	82.06797	94.038018	83.023174	68.107513	72.71391	96.192308	89.13474	91.438679	101.87	84.661972	60.295	85.421875	74.51241	85.051048	100.241873
DANA0146	97.874347	108.805124	111.952793	108.259699	78.847541	93.777027	85.736994	82.28125	82.426923	74.035211	82.964286	73.919355	97.335602	78.980936	109.741158
DANA0147	112.640408	84.381798	93.396998	89.863406	55.050765	87.995192	88.808442	74.79717	72.21	88.03169	100.57	89.640625	83.118318	78.239545	78.37043
DANA0148	90.225564	115.068188	111.167364	83.769326	86.692878	113.240385	117.805195	98.754717	95.12	117.989437	112.765	108.554688	85.982094	89.060132	100.609698
DANA0149	107.72371	92.615128	100.439078	109.87965	101.655566	103.716772	101.404459	82.514706	89.922535	95.880435	99.233696	87.370968	101.692875	114.58978	179.778096
DANA0151	99.299975	112.167169	106.158562	95.420106	108.054487	86.300633	82.191083	94.352941	82.68662	96.228261	100.163043	108.395161	117.284539	104.151998	103.097324

DANA0152	107.3258	92.713158	92.685733	96.00347	108.849201	113.65	106.442053	97.640909	78.192308	195.967857	88.055556	100.492188	72.89434	75.588799	186.812866
DANA0154	81.941443	68.640076	67.665543	72.520272	79.156706	90.15493	98.318627	100.776786	99.088608	103.932143	98.036364	120.830645	109.00457	84.973694	71.214746
DANA0155	103.104278	108.18864	102.279221	90.64102	120.368366	94.048649	99.783237	94.390625	114.019231	100.179577	112.357143	119.233871	109.60437	132.850207	107.140242
DANA0156	108.988161	101.919259	92.102002	110.796678	105.76734	132.045886	119.61465	120.985294	107.288732	129.402174	106.978261	96.225806	105.827393	85.653861	106.05611
DANA0157	101.104521	88.41626	97.27712	97.474544	98.739437	90.838608	83.165605	94.705882	69.841549	91.804348	73.782609	128.354839	87.410062	58.750924	89.476481
DANA0158	112.607766	97.280167	81.287585	95.646307	110.873142	115.600962	110.310065	98.04717	99.7	108.207746	101.77	113.148438	117.920691	105.705816	83.855039
DANA0159	80.684215	95.679315	98.496077	89.251902	73.038133	108.48	95.365894	83.268182	97.288462	100.160714	93.625	77.40625	65.599985	92.503542	82.365619
DANA0160	100.859671	104.227755	127.59894	93.419752	118.41368	89.085	101.86755	114.809091	84.221154	100.75	109.111111	99.53125	132.140518	68.077066	96.549811
DANA0161	99.433297	113.039451	115.422717	104.806405	125.15406	97.458108	107.374277	76.15625	78.688462	109.612676	105.125	102.491935	94.567175	89.050416	103.887162
DANA0162	88.102556	87.275921	105.809331	92.094247	86.956416	86.95	89.91185	67.15625	103.6	83.753521	85.392857	77.112903	85.0936	103.68252	96.354889
DANA0163	113.219604	113.943225	118.833287	133.371056	119.511919	98.565	107.922185	96.304545	91.509615	105.978571	92.25	112.164063	113.781048	98.284203	126.622926
DANA0165	94.559766	84.002486	73.240326	90.853493	112.587455	75.392405	95.648089	100.617647	104.690141	91.782609	116.61413	84.903226	106.720646	97.672056	88.019019
DANA0167	87.867541	94.712662	97.725924	66.486269	84.923521	88.769231	91.555195	65.712264	86.99	83.816901	84.355	83.40625	65.187571	67.019687	70.790745
DANA0168	120.473533	97.554259	94.537343	99.933647	92.055533	98.072183	124.397059	110.821429	114.458861	103.653571	115	114.25	91.633581	117.393175	97.567466
DANA0169	105.341396	103.103897	96.471289	107.667255	81.302456	93.29	107.688742	110.977273	102.336538	86.2	85.041667	102.742188	110.960754	98.935981	106.658043
DANA0170	96.948736	88.917397	100.946475	81.335274	59.283795	87.858108	89.773121	74.96875	113.569231	79.200704	50.196429	121	83.323817	81.267878	177.36489
DANA0171	106.720516	87.491444	92.627848	85.159776	82.716893	109.849684	110.681529	84.691176	108.059859	98.271739	110.532609	100.798387	69.402917	69.5728	90.101208
DANA0172	92.289451	86.260356	83.439085	90.29356	79.258536	91.774324	117.020231	81.90625	92.776923	82.359155	104.767857	99.443548	71.292102	71.985143	177.36489
DANA0173	75.115671	86.685616	80.777172	68.190799	67.175048	87.94	92.127483	56.404545	62.846154	79.032143	46.513889	97.117188	54.077453	63.991125	73.861012
DANA0174	104.061987	108.80182	106.554137	114.139392	108.521603	96.424296	101.264706	103.910714	89.03481	117.132143	112.845455	113.596774	126.594411	89.284122	94.46501
DANA0177	71.910106	66.861155	104.967399	72.929661	89.002725	89.596154	83.529221	79.283019	91.66	81.978873	65.23	105.789063	73.221064	68.48245	74.331212
DANA0178	93.280853	115.768511	129.16518	111.496223	127.626654	87.735	73.312914	98.95	92.307692	79.096429	116.013889	102.4375	108.485107	107.347391	120.756202
DANA0179	68.956228	100.591833	96.998033	91.394998	65.716845	94.456731	93.469156	81.278302	98.14	97.707746	77.335	125.382813	81.166301	14.624866	100.816495
DANA0181	57.72034	91.893552	98.959585	106.332197	42.473506	86.824324	103.407514	65.546875	85.426923	86.880282	45.178571	64.145161	55.456465	89.542281	121.646741
DANA0182	91.873391	83.649301	93.688493	86.07371	83.594475	123.497537	121.898089	83.29878	97.616935	102.318182	73.519231	100.931034	89.310057	92.402129	90.277637
DANA0183	105.651757	83.876389	66.415858	73.938059	103.181832	83.996479	102.313725	87.691964	97.455696	86.328571	92.35	104.91129	78.536118	72.880328	82.960023
DANA0184	106.720009	103.226511	101.004946	96.196242	104.772722	120.075	108.140728	80.677273	89.807692	100.032143	101.430556	120.085938	107.485074	114.255541	120.060869
DANA0187	78.183371	103.95706	95.963216	77.919613	54.509387	109.454225	152.245098	129.758929	117.772152	111.507143	128.827273	92.08871	81.092783	72.704613	104.052037
DANA0188	73.917532	76.199358	92.099454	79.640847	95.874157	88.596831	98.230392	84.892857	85.56962	94.096429	97.654545	89.040323	75.431601	81.169655	99.829453
DANA0189	97.84706	79.559344	88.637856	88.210091	117.614961	82.478378	95.239884	79.375	90.134615	79.559859	100.303571	86.5	75.370849	71.806337	78.957076
DANA0191	96.509039	119.41651	119.436492	90.354247	105.161017	80.182692	74.173701	117.745283	124.21	77.711268	91.75	99.507813	113.205857	107.382163	116.660779
DANA0193	87.509848	83.755911	78.861958	82.37023	107.239593	88.263514	83.74711	85.171875	77.5	74.235915	111.125	108.685484	60.153753	41.433141	70.686546
DANA0196	92.204372	98.513382	100.439078	101.552318	98.4101	108.477848	119.605096	106.661765	103.401408	111.619565	116.842391	112.266129	107.294945	116.122411	81.553709
DANA0203	107.382417	97.36255	114.170363	101.552318	104.672973	113.106013	119.270701	120.558824	121.211268	101.358696	105.983696	94.991935	104.416046	113.836351	117.059017
DANA0205	113.544473	86.643617	90.739626	96.54803	87.459313	98.75	96.726821	66.168182	69.519231	88.375	86.138889	101.335938	54.187398	81.662194	79.883462
DANA0212	129.412619	95.960186	92.388379	95.442138	96.884653	76.929577	79.147059	103.053571	104.718354	97.225	100.559091	124.653226	119.03042	31.090597	93.595079
DANA0214	106.538105	87.499719	104.867252	83.470487	85.105021	87.725352	85.127451	93.678571	82.474684	95.885714	107.418182	113.306452	98.291254	81.182128	101.526379
DANA0216	123.654391	89.352151	84.660574	82.70527	76.109857	97.126761	93.053922	95.446429	99.496835	80.382143	68.418182	67.604839	87.683261	105.527259	89.015947
DANA0219	99.368343	121.68045	106.322021	102.94333	121.041568	98.817308	105.863636	86.768868	82.56	105.630282	79.255	109.820313	112.13442	102.888447	113.310265
DANA0220	87.624167	65.374876	62.876498	54.441291	47.225899	85.795	95.688742	73.859091	62.557692	155.060714	68.583333	73.304688	62.826551	64.256605	101.034933
DANA0221	99.160806	93.717547	70.574499	65.232274	82.952368	89.985577	80.899351	93.377358	121.26	77.542254	65.08	49.65625	91.658483	104.122659	77.764913
DANA0223	118.342032	113.157296	110.950091	102.571885	89.600332	103.543269	120.858766	91.679245	111.1	111.503521	92.995	130.773438	109.246618	100.637333	102.242178
DANA0224	87.019108	86.643617	79.725555	86.085441	98.317845	100.37	105.384106	102.768182	108.990385	118.042857	113.888889	120.34375	91.870531	96.199012	80.144789
DANA0225	120.472707	95.76455	107.781224	106.917825	125.354161	117.920775	90.95098	118.977679	99.022152	106.203571	102.277273	92.475806	99.780983	88.501251	110.65191
DANA0230	126.949739	88.114732	91.258226	111.763948	97.839202	96.125828	102.891509	108.933036	108.125	116.415493	99.236607	107.862069	88.799591	93.44767	115.625952
DANA0231	103.210083	67.604622	65.659386	87.769157	68.705492	85.385	109.899007	92.322727	102.490385	91.867857	111.527778	117.90625	89.993509	76.830892	91.828552
DANA0232	101.282824	79.399542	96.498243	87.461251	87.13751	91.216549	94	106.120536	94.85443	94.835714	92.227273	107.282258	86.888194	66.999193	82.843126
DANA0233	119.911662	102.155887	99.495163	88.170375	106.132735	97.602113	104.112745	114.008929	108.506329	92.103571	98.322727	129.056452	107.445335	110.477447	95.530933
DANA0235	99.697088	98.589082	94.851514	123.342446	84.74254	107.45	102.796358	109.190909	95.798077	107.928571	112.597222	114.4375	106.310666	95.122399	100.282491
DANA0236	78.217882	74.050748	76.340492	80.910056	46.087941	95.869718	97.617647	57.558036	74.414557	76.767857	81.440909	98.5	58.328423	61.276279	75.570931

DANA0237	77.765498	73.56776	114.541901	74.632522	100.233156	76.644366	81.612745	85.375	83.414557	86.5	67.095455	83.741935	79.041522	62.372548	91.810485
DANA0242	104.443068	91.964516	106.009919	106.77018	112.47451	88.945423	101.269608	93.705357	90.952532	108.292857	100.572727	95.524194	123.950178	96.41302	98.388961
DANA0243	94.237801	84.58763	78.0911	82.164742	52.125854	94.533451	87.151961	74.366071	72.772152	91.589286	69.863636	85.725806	87.392803	73.186473	71.537591
DANA0245	96.440745	91.639414	92.078233	103.907604	101.69181	92.523734	88.807325	90.823529	75.514085	102.75	95.809783	103.024194	73.475877	91.035031	91.85657
DANA0249	104.154044	110.604061	93.891976	103.977884	97.632063	123.007042	95.147059	84.25	85.066456	106.417857	113.540909	90.346774	88.480641	75.746689	112.747534
DANA0250	120.97808	74.050748	66.084389	72.959251	90.392127	87.244718	92.009804	100.361607	105.050633	94.267857	104.704545	92.5	94.94218	93.731607	68.96384
DANA0251	109.807813	90.434167	105.927543	93.174561	87.862215	83.272887	83.181373	99.450893	119.490506	102.389286	96.85	86.91129	68.230645	80.138056	96.370236
DANA0252	98.488563	102.440757	92.685733	98.374905	110.640674	99.15	94.342715	109.327273	102.509615	107.992857	96.583333	96.648438	115.855378	110.685109	119.693837
DANA0254	60.409891	64.779027	71.658104	77.559225	50.34242	76.71	79.844371	54.85	64.403846	84.485714	83.666667	117.226563	56.143757	65.153836	72.699553
DANA0255	72.572435	79.930988	68.689603	60.400187	60.966764	95.088028	90.029412	74.995536	97.825949	69.646429	95.05	65.185484	81.633793	87.069516	74.062239
DANA0256	106.990496	86.915504	90.146827	104.268862	87.579577	96.213028	118.392157	96.986607	87.202532	81.164286	118.518182	114.903226	106.421596	90.869158	86.760826
DANA0263	83.139278	117.436155	88.31705	103.318746	75.378342	94.175633	96.914013	85.102941	96.630282	78.608696	78.88587	108.516129	100.7525	120.719057	86.109018
DANA0296	112.12955	116.907958	115.803673	123.709376	124.87913	146.789557	135.092357	128.955882	106.433099	127.695652	129.25	134.596774	120.429575	101.556076	179.778096
DANA0298	99.217325	98.796633	104.264301	93.053987	96.096377	95.998418	111.058917	82.558824	81.978873	87.793478	111.038043	84.153226	75.424907	78.015449	100.626502
DANA0299	107.947464	99.169981	114.574512	105.894162	117.682117	118.225	121.129139	80.036364	72.75	110.885714	109.472222	100	89.520964	87.332234	106.396051
DANA0307	105.800829	129.098724	131.413626	88.686325	101.933025	103.495192	110.183442	107.584906	126.23	107.151408	120.715	127.328125	108.993485	107.162331	117.992618
DANA0317	65.073008	95.960186	112.821435	104.051832	103.839001	100.84507	111.985294	106.174107	105.420886	100.514286	109.763636	90.709677	91.034669	100.601613	102.935895
DANA0318	117.934379	86.445975	80.852144	84.818061	111.326059	96.667254	83.323529	105.785714	102.943038	90.989286	92.827273	110.475806	105.023466	59.937262	45.044331
DANA0319	71.205315	66.04211	70.634049	66.284625	59.001221	92.014085	84.995098	75.90625	85.123418	60.710714	86.063636	101.379032	73.243161	81.561746	70.971798
DANA0320	59.56099	85.98652	86.000354	64.672776	67.25501	114.714789	98.901961	70.388393	79.066456	86.532143	62.854545	98.983871	79.063551	70.801935	82.42478
DANA0321	105.620953	74.673156	78.308226	69.409022	101.41198	83.632042	91.519608	74.727679	91.987342	91.417857	67.981818	118.991935	82.281517	87.967643	82.155295
DANA0322	85.008952	102.932554	89.831162	89.562778	79.276635	83.146127	108.367647	94.669643	100.256329	87.796429	115.436364	108.298387	79.022127	79.898897	97.194617
DANA0323	86.737039	112.516845	103.071851	93.443811	106.564985	112.723592	112.377451	99.625	91.322785	97.685714	92.363636	112.919355	116.214508	104.547606	110.65191
DANA0324	77.871102	95.124689	91.520596	110.122313	79.429979	85.75	79.176752	80.720588	80.859155	93.25	82.86413	89.645161	86.952264	80.133743	87.610792
DANA0326	109.772935	91.501188	87.83387	93.476826	82.815797	93.94	98.013245	120.072727	84.615385	101.071429	78.847222	96.648438	99.22324	92.438446	105.264042
DANA0331	72.23619	82.742712	110.702745	70.384151	107.313422	94.762162	105.171965	81.90625	97.138462	95.278169	114.714286	96.975806	87.006907	88.611089	122.325054
DANA0332	105.456767	127.959615	109.55926	99.219057	101.585445	188.610915	187.416667	105.8125	96.155063	140.146429	120.345455	99.758065	88.468686	80.87018	118.597097
DANA0334	104.124292	89.787273	100.148051	116.901238	115.972052	92.267606	99.897059	102.276786	113.927215	90.721429	110.486364	98.064516	114.775431	112.074229	92.710353
DANA0335	87.054098	74.398482	77.214442	95.493257	107.388952	101.140845	104.04902	93.303571	96.81962	91.942857	103.6	113.572581	93.921269	100.833311	94.248892
DANA0336	56.454589	99.0025	98.740105	105.5069	84.293069	92.869718	94.014706	107.540179	79.787975	121.471429	84.863636	122.5	86.780563	82.254078	82.42478
DANA0340	94.527044	97.640054	95.58821	91.616853	97.223851	87.855	107.778146	111.686364	136.182692	88.728571	111.416667	78.765625	86.894666	101.733329	101.487714
DANA0343	90.811529	77.296656	89.466075	80.714895	82.083958	80.65	84.488411	65.840909	66.144231	82.514286	81.25	105.4375	74.84449	74.382455	121.119284
DANA0344	108.873447	121.762693	97.844358	127.514737	103.446448	118.53	95.405629	103.436364	91.480769	97.032143	114.847222	111.882813	118.96352	107.683233	95.286928
DANA0346	101.040782	93.232854	106.048608	114.812472	98.387194	105.764423	106.350649	105.136792	127.5	106.422535	86.095	113.804688	102.390682	90.860037	129.788895
DANA0354	102.455574	130.828117	113.35713	79.913594	117.021321	116.146127	128.509804	100.991071	129.857595	109.578571	128.227273	95.403226	106.457441	121.487429	191.172421
DANA0355	82.449604	98.033842	100.046358	98.224572	128.254883	122.801056	114.490196	95.473214	97.987342	105.528571	118.354545	102.104839	88.135076	78.047118	94.119786
DANA0356	84.980313	91.118884	86.913855	97.424776	92.457811	82.778378	91.550578	78.03125	91.415385	98.119718	77.142857	69.104839	91.321184	85.147704	99.847082
DANA0357	90.867894	99.908016	101.338131	77.010112	102.014761	102.471831	116.333333	89.178571	91.351266	90.164286	65.063636	95.5	85.069788	99.533851	121.39406
DANA0359	81.033643	94.986944	85.949083	74.789733	78.362434	96.240385	91.063312	93.929245	108.01	105.735915	95.92	97.492188	109.116736	91.195941	83.577912
DANA0360	53.737566	107.409348	106.105733	89.843424	55.89004	93.145	79.407285	59.581818	77.557692	84.817857	58.805556	110.453125	73.372212	76.115931	85.000762
DANA0361	82.039071	93.494732	89.599574	85.573707	83.880884	112.993377	116.641509	85.482143	67.298077	86.542254	111.477679	104.577586	78.649941	68.889042	84.028002
DANA0362	104.901155	91.122901	118.460989	104.689222	96.9957	112.256329	105.861465	103.235294	85.623239	110.369565	97.326087	96.975806	95.516726	118.009881	119.071034
DANA0363	95.701198	97.507991	97.27712	110.065675	114.156993	91.669304	98.519108	104.264706	111.323944	92.967391	95.320652	116.548387	99.844284	113.664365	115.141671
DANA0364	97.017615	92.129706	80.414685	65.928409	82.155719	77.575949	87.08758	63.264706	85.422535	55.913043	109.75	81.201613	71.691623	95.72764	72.211944
DANA0366	77.498839	111.940661	94.216247	77.768865	97.058525	107.869718	99.637255	79.709821	76.579114	92.992857	90.604545	102.104839	52.268563	53.109557	75.589496
DANA0367	82.042813	85.05739	77.654407	81.086244	106.002839	95.294014	96.852941	93.316964	111.231013	92.414286	112.477273	91.193548	94.383612	119.339616	107.389949
DANA0368	58.45372	78.664803	85.046728	81.068403	79.48202	79.31162	78.455882	84.464286	79.636076	74.328571	82.15	104.040323	86.144558	81.127216	84.015755
DANA0370	95.194773	80.996969	72.141989	78.169959	86.448326	100.197115	96.702922	78.278302	72.21	73.348592	92.905	109.679688	77.317417	69.190009	74.010105
DANA0371	76.98396	79.690131	80.852144	72.376319	62.750535	89.383803	83.794118	75.571429	75.14557	74.617857	82.177273	89.524194	79.523828	104.933693	74.062239
DANA0377	84.972058	70.961221	67.146185	72.077605	89.294185	80.566456	81.665605	91.985294	71.53169	91.119565	93.233696	110.306452	90.848316	85.211055	98.172261

DANA0378	113.994341	103.356549	117.120753	114.270948	102.518312	111.254747	101.93949	105.220588	109.697183	116	123.869565	99.782258	105.421231	104.42507	98.840441
DANA0380	91.866949	77.18082	75.146831	88.70324	96.672289	105.586486	93.406069	81.09375	82.507692	95.901408	84.392857	86.185484	91.980887	107.171444	177.36489
DANA0382	101.530517	98.95924	64.772787	86.92039	51.04837	103.85443	88.449045	87.235294	117.588028	90.619565	61.097826	107.620968	92.852955	109.643927	76.300355
DANA0401	120.488499	121.203025	120.29341	120.303809	82.26146	103.341346	98.061688	66.943396	62.22	85.78169	68.62	89.335938	100.799427	112.672362	134.705973
DANA0402	71.959788	85.527371	89.230717	81.782705	98.177567	96.528846	83.324675	75.136792	91.15	71.109155	68.335	84.296875	71.484892	85.561718	78.671094
DANA0403	97.364345	99.750624	92.854529	91.79465	87.482108	91.230769	89.86039	95.259434	115.96	93.165493	80.95	123.742188	115.714343	124.614841	95.850469
DANA0404	83.591967	116.714618	116.775973	103.764077	110.53967	97.640823	91.702229	94.514706	103.158451	111.891304	111.543478	101.5	93.816553	98.242344	106.269803
DANA0408	117.549886	129.928223	122.758515	147.275488	138.606133	99.706731	93.386364	105.816038	98.91	109.507042	105.1	102.296875	130.857058	113.108944	208.557609
DANA0409	102.079676	119.641165	93.480778	101.795171	103.21609	91.83	111.364238	113.554545	95.75	112.064286	104.486111	129.273438	133.23845	124.526411	153.961743
DANA0410	126.95461	103.100997	105.990466	112.021761	103.282591	100.598101	94.224522	113.779412	121.073944	123.967391	93.88587	125.209677	104.569294	118.203662	109.079228
DANA0413	100.787382	98.033842	101.705447	102.173216	95.752897	90.471831	115.156863	128.620536	107.072785	93.003571	99.781818	114.419355	96.372815	91.991044	185.138584
DANA0421	88.281336	82.968251	70.285593	81.058025	64.285563	79.615	85.471854	92.036364	103.759615	62.382143	79.763889	105.203125	95.299925	110.06148	79.590447
DANA0422	63.609419	89.8743	96.228194	87.29293	85.726074	113.403846	128.87987	71.316038	70.11	107.700704	101.635	93.625	84.750302	79.924349	96.524015
DANA0428	97.096583	100.173166	97.511597	118.397014	110.574691	98.740385	100.311688	97.919811	91.14	86.024648	110.02	106.304688	108.501668	96.226425	91.875323
DANA0429	81.23418	105.580751	91.970812	85.238374	99.669676	90.086538	103.258117	89.04717	87.07	99.566901	102.175	98.078125	97.176082	99.539089	100.450363
DANA0431	85.093406	102.972648	103.149942	71.198474	94.878297	116.386076	117.813694	98.382353	80.584507	87.956522	84.788043	107.669355	63.129793	85.519302	110.259233
DANA0432	97.250049	129.307821	130.965232	90.185275	90.521894	92.22943	87.006369	79.308824	79.105634	83.282609	97.994565	103.701613	69.4796	78.746242	107.63283
DANA0433	74.303509	124.653956	117.400594	91.813939	110.706636	106.78	96.736755	86.145455	72.913462	111.132143	89.555556	100.515625	65.255743	72.629014	85.000762
DANA0435	79.145406	107.232764	97.684416	91.259882	129.191343	98.008278	99.391509	103.174107	103.134615	106.443662	103.46875	94.646552	85.360028	89.25449	84.963203
DANA0436	93.395048	116.665232	128.7293	106.375102	119.588539	94.700331	104.471698	95.446429	88.875	93.767606	97.09375	75.922414	120.865686	114.059676	100.995246
DANA0438	118.837648	112.49896	112.176142	112.459851	89.430617	96.197115	90.576299	111.731132	123.58	105.693662	87.475	104.242188	110.358525	125.640607	94.614423
DANA0439	109.956671	92.960669	88.823105	105.354999	100.225028	102.174051	113.132166	73.661765	84.672535	99.152174	81.706522	112.653226	102.197507	97.601912	113.689113
DANA0440	88.355726	92.414244	77.661553	76.324945	80.644769	101.865385	90.357143	97.070755	82.36	84.239437	87.85	102.789063	81.147166	73.853276	86.028505
DANA0441	105.778108	105.711242	81.303269	93.826409	66.423856	99.667722	96.746815	106.411765	99.978873	88.586957	96.836957	92.693548	107.7337	112.008537	97.664357
DANA0442	107.181233	107.767005	101.063292	100.87663	67.875127	115.975962	130.077922	65.910377	108.38	91.580986	68.65	105.0625	69.241926	73.313015	69.27855
DANA0450	118.782701	127.166786	129.901762	124.36615	123.943829	109.2	100.819536	112.054545	82.855769	134.789286	113.291667	109.1875	100.259378	101.605296	132.145281
DANA0453	99.324484	95.498616	94.851514	98.076982	89.559052	92.08	96.09106	89.595455	129.721154	91.535714	81.527778	99.859375	103.661965	110.149565	95.849594
DANA0454	99.641482	91.752326	91.180998	87.43961	110.464195	106.7	99.418874	78.959091	81.201923	106.492857	94.305556	125.617188	93.669465	97.909825	91.555179
DANA0455	83.934975	87.052769	91.023346	100.858315	64.894031	113.03	107.385762	82.395455	81.115385	95.660714	125.083333	109.328125	84.489867	82.216223	90.770408
DANA0456	92.244345	89.350572	100.635707	114.055672	106.450708	90.677885	83.821429	93.533019	77.5	96.355634	96.55	127.398438	93.316208	88.745944	208.557609
DANA0457	86.014434	128.742361	142.913311	136.357158	109.307628	80.21519	83.012739	72.79412	73.971831	97.804348	101.663043	65.741935	85.225194	106.541404	84.784752
DANA0459	129.190652	113.191543	125.100469	152.606195	128.523281	108.7	105.438742	118.804545	95.086538	122.275	92.083333	103.445313	131.985746	125.677945	118.20378
DANA0461	97.536688	105.050289	101.076072	91.435331	119.125492	99.035	101.455298	88.477273	100.788462	99.764286	114.041667	89.335938	84.102391	91.041542	105.264042
DANA0463	106.784001	72.152605	89.867489	79.056506	85.546739	93.810127	100.367834	90.294118	106.200704	85.445652	100.358696	104.596774	95.736794	93.923048	93.003077
DANA0466	93.412438	84.598458	86.308014	98.494254	79.905047	86.955696	94.444268	95.308824	109.507042	98.108696	103.75	87.540323	84.087936	92.929132	91.662727
DANA0467	120.996767	125.039086	131.59242	133.579071	97.622108	117.44462	119.585987	99.132353	95.43662	116.25	115.717391	118.024194	110.09617	114.144209	127.64099
DANA0468	74.60355	87.054806	106.792948	96.788171	88.400433	82.298077	85.326299	86.330189	97.46	77.40493	86.8	88.914063	78.343707	125.619313	83.019975
DANA0470	77.859614	79.653633	100.717497	76.907997	111.00472	92.066216	94.359827	95.484375	92.765385	80.098592	100.142857	91.991935	86.645853	82.339468	93.762867
DANA0471	75.346986	99.711897	73.495008	77.170289	90.764865	98.041892	98.859827	92.046875	86.719231	92.098592	84.660714	98.403226	97.860241	58.185761	77.42414
DANA0472	112.62615	103.548335	93.703128	99.534241	107.805415	105.384615	116.631494	97.707547	110.7	85.147887	110.095	96.414063	84.487884	111.023214	106.115238
DANA0474	91.149894	112.55539	103.70982	95.896845	84.884832	95.405	108.115894	80.731818	91.240385	110.146429	104.736111	104.992188	81.961676	83.822635	94.140465
DANA0475	98.012097	114.717831	126.159245	113.099126	86.282653	120.308099	136.509804	102.25	109.18038	114.689286	114.4	110.620968	108.670762	103.736288	151.797842
DANA0477	115.135102	88.643801	83.600519	100.484504	86.30293	99.254808	94.185065	95.301887	111.38	83.985915	121.81	108.4375	94.315379	107.862428	74.331212
DANA0478	110.70724	125.486885	109.062837	126.906627	130.33346	84.764423	85.394481	92.273585	98.01	93.957746	104.98	83.757813	107.961298	110.852917	89.150257
DANA0479	111.055474	104.562042	112.829553	109.476363	111.506508	124.887838	115.537572	91.0625	80.753846	107.46831	111.089286	111.709677	102.720842	75.62937	117.801702
DANA0482	77.040989	73.853599	94.243503	82.569365	102.932745	92.718919	100.776012	100.859375	122.95	107.109155	104.910714	95.983871	94.405759	105.157804	96.077464
DANA0483	93.853457	100.797072	103.045221	76.990516	105.391556	92.832278	94.558917	81.735294	75.18662	103.532609	108.967391	101.790323	92.248379	84.621991	94.853013
DANA0485	115.828258	68.001074	73.902824	81.4261	92.484209	87.596519	88.754777	71.970588	83.288732	85.195652	75.820652	65.137097	72.221829	61.697047	84.109338
DANA0487	78.34462	86.219339	97.404005	104.566456	105.424971	104.902709	132.240446	89.426829	104.475806	106.22028	106.826923	114.818966	95.944885	85.520859	95.678978
DANA0489	95.496826	83.832262	100.094408	96.188113	109.515706	104.211823	110.963376	96.25	96.903226	109.723776	117.25	111.689655	105.137006	103.441551	122.601969

DANA0490	99.40456	86.094215	78.409182	93.6696	83.951329	90.756757	94.815029	97.609375	97.103846	103.528169	80.142857	96.782258	99.239559	98.939251	72.10578
DANA0497	77.264823	83.203159	101.54303	58.435995	155.924394	95.143243	107.998555	115.578125	108.238462	89.183099	110.767857	90.129032	72.989419	84.060774	74.165197
DANA0498	79.663684	92.34723	111.952793	83.797671	114.764072	111.509459	120.176301	75.828125	108.653846	91.359155	114.392857	78.66129	84.279043	120.697546	84.282808
DANA0500	107.922845	117.259929	107.530723	108.167637	80.950973	97.043269	83.227273	64.283019	86.45	88.697183	97.105	87.390625	86.3844	87.001389	92.597072
DANA0507	111.113731	89.284795	106.286559	115.236501	101.710566	124.170886	130.191083	116.514706	112.401408	125.413043	120.722826	115.266129	114.624094	123.036927	99.661471
DANA0508	68.23738	112.039932	101.966743	74.848209	103.732955	103.925	111.543046	77.854545	81.980769	98.521429	120.194444	103.023438	86.999038	88.223506	103.372862
DANA0509	100.773602	111.862049	91.518158	87.832785	106.199061	89.269231	98.826299	102.674528	86.11	101.616197	105.01	116.007813	123.95884	110.597428	208.557609
DANA0510	100.059103	108.073408	94.537343	78.940736	74.649455	105.376761	99.730392	82.575893	102.89557	75.603571	95.036364	76.919355	70.099894	101.959407	91.540301
DANA0512	97.264475	97.714628	96.016721	83.361434	72.431181	114.25	107.460784	113.111607	105.648734	109.45	110.704545	85.241935	96.767542	87.031646	79.813866
DANA0513	58.593433	88.765467	85.671316	68.485499	101.235451	88.693038	98.007962	87.029412	63.239437	90.163043	62.483696	98.016129	81.026406	73.088984	79.11642
DANA0514	85.427289	105.426537	98.799578	96.892055	115.322978	111.100993	120.867925	106.09375	117.115385	110.647887	119.165179	103.517241	87.164576	105.3539	116.309885
DANA0515	127.552195	99.608902	119.966327	83.666466	116.701847	102.860577	107.285714	82.665094	104.5	94.211268	89.995	93.929688	92.921847	119.931573	131.364276
DANA0516	120.639662	141.081161	158.294973	110.162752	127.316018	122.048077	122.241883	119.613208	105.64	123.683099	134.14	121.679688	127.743094	123.51362	109.192133
DANA0517	113.017824	126.439203	129.061536	111.783244	118.718192	95.865	105.523179	101.609091	112.798077	104.435714	89.763889	115.820313	134.576188	102.940084	121.82007
DANA0518	87.683462	80.668468	100.638281	86.845178	86.087469	97.04	100.625828	81.304545	74.115385	86.403571	75.055556	97.984375	106.002432	91.010398	83.097737
DANA0519	108.815585	123.829653	115.35952	119.777952	97.272767	106.519231	105.060065	96.448113	83.54	115.169014	104.92	95.898438	111.561331	101.099887	117.846547
DANA0520	112.03971	137.676805	128.165283	102.514299	104.468694	100.6	103.332781	88.245455	102.25	96.4	109.875	102.625	105.380946	96.059715	132.22691
DANA0521	76.179736	103.846331	105.487239	89.244477	91.704668	104.13	93.647351	79.163636	72.807692	88.492857	98.138889	110.03125	78.676097	84.244934	89.67921
DANA0523	113.067764	121.762693	98.106267	102.761562	96.739799	104.79	113.996689	87.454545	83.490385	110.167857	111.847222	101.6875	97.969952	85.404832	89.466197
DANA0524	86.396872	97.974372	101.004946	82.185312	48.313973	99.21	134.331126	58.695455	80.201923	98.767857	97.402778	98.476563	70.388193	82.347251	90.937965
DANA0526	85.141102	87.317852	78.24383	72.601702	62.713683	88.805	86.907285	75.945455	80.884615	84.817857	92.180556	99.789063	68.107544	59.448919	80.869954
DANA0529	77.887156	96.77619	93.306563	97.629545	85.910832	93.169304	97.630573	99.029412	87.661972	118.978261	99.951087	129.153226	109.411015	91.351669	71.928487
DANA0530	102.95491	96.376107	103.430766	87.234499	86.061208	91.173077	83.49026	90.207547	94.07	89.088028	89.725	120.71875	87.313496	111.55344	92.835674
DANA0531	120.791633	96.384274	106.081352	92.178573	112.189801	92.252703	96.50578	124.09375	118.484615	111.566901	118.232143	114.685484	128.255172	125.650328	109.450924
DANA0532	114.493569	101.144107	104.763065	115.073346	87.835025	112.355769	109.306818	107.245283	93.19	118.591549	97.705	115.210938	124.284295	104.361197	103.434502
DANA0533	85.382083	86.522636	58.615566	88.397003	102.017532	96.540493	95.068627	106.441964	103.617089	59.885714	116.813636	92.983871	93.081186	121.326737	88.609257
DANA0536	99.474073	102.91369	91.788946	81.811651	95.995492	106.705	92.951987	78.768182	97.884615	83.95	92.388889	87.25	79.885829	95.27241	88.82152
DANA0537	80.702803	109.947349	93.708111	99.844432	93.125572	115.992089	107.786624	87.573529	89.066901	97.75	110.565217	111.225806	87.127323	90.992101	82.497746
DANA0538	89.878532	116.911898	89.541738	59.747298	105.972424	148.11	148.536424	101.690909	112.076923	107.939286	113.375	104.03125	74.668808	68.393448	68.651785
DANA0539	87.049738	95.498616	76.207045	80.889401	104.724357	83.235	80.554636	91.681818	82.625	95.639286	100.430556	89.195313	102.044405	86.35021	80.616509
DANA0542	98.498426	85.054252	102.713776	94.352745	86.217622	114.66	108.145695	72.440909	83.182692	80.639286	93.125	142.28125	76.48584	95.351885	82.19264
DANA0543	80.23066	118.982577	113.236604	118.745877	115.439256	116.887417	105.056604	112.736607	103.259615	130.348592	113.125	94.310345	100.486659	103.004333	105.986913
DANA0545	94.603291	84.858973	112.523531	93.096156	74.067086	105.965	116.589404	70.45	85.480769	87.432143	74.486111	125.382813	94.686918	89.569605	66.51455
DANA0546	114.486861	83.955269	93.419533	87.206202	110.874173	105.245	107.097682	93.372727	107.855769	92.810714	82.166667	88.726563	96.437726	102.498827	95.849594
DANA0547	101.980427	110.164209	92.491686	95.979158	105.033947	87.587025	85.75	86.558824	92.183099	73.326087	97.521739	88.290323	94.01156	88.816256	84.109338
DANA0548	87.883371	80.169153	74.005577	88.023611	65.006115	78.230769	97.292208	91.424528	114.53	107.59507	82.555	111.34375	91.046298	126.970052	81.889009
DANA0552	95.44556	118.174035	109.807515	62.707608	101.160559	104.581731	102.785714	84.957547	83.81	87.123239	103.54	94.679688	91.586496	94.019301	104.020697
DANA0553	111.282205	84.182413	76.727415	86.867813	99.611005	91.702532	96.727707	98.029412	93.957746	101.891304	133.815217	111.58871	101.835873	107.019371	100.847719
DANA0555	97.930018	74.916793	88.618223	91.384888	108.98823	101.718354	106.931529	94.955882	110.257042	82.706522	118.244565	109.145161	104.089611	134.453126	89.06803
DANA0556	107.387208	107.658255	97.315607	87.892878	109.285344	109.65	115.273179	96.522727	121	86.189286	109.875	78.742188	102.082728	109.042299	108.047197
DANA0557	102.254451	103.760999	98.959585	99.573832	107.881804	93.785135	99.653179	96.65625	80.592308	99.746479	110.607143	118.629032	110.640111	104.06838	81.462136
DANA0559	100.249627	87.499719	107.467988	102.326216	90.658994	96.683099	120.397059	156.022321	114.629747	109.664286	92.227273	111.879032	108.538842	98.822337	93.760027
DANA0560	123.925588	104.328221	120.731427	110.493663	116.687625	87.014423	97.496753	9.037736	103.64	117.18662	107.2	131.5	126.430855	112.400923	96.968599
DANA0573	113.528949	91.639414	97.641362	91.295558	92.839893	96.852848	151.86465	82.838235	93.133803	156.5	117.445652	105.129032	83.546943	80.330125	84.109338
DANA0574	106.974738	86.719415	83.925475	92.223929	122.300041	95.008803	103.02451	75.330357	90.762658	96.410714	110.145455	113.330645	105.130028	92.802452	98.225896
DANA0575	88.063274	81.367604	79.817607	81.561386	58.980413	100.435	96.324503	96.359091	117.384615	82.45	103.347222	106.398438	84.773261	107.741454	71.213699
DANA0576	101.765993	90.138577	121.115917	117.292356	108.624093	116.253165	105.273885	124.691176	121.179577	85.51087	102.396739	65.379032	133.200527	129.088738	143.349302
DANA0577	115.938247	89.798816	88.467894	77.791075	121.445428	94.061709	73.802548	71.867647	71.235915	65.815217	90.25	79.774194	78.956787	69.563475	87.610792
DANA0585	98.588547	88.561936	87.849828	79.937269	48.126956	98.37	95.738411	92.8	82.009615	84.785714	52.138889	111.601563	96.616611	117.786853	77.477694
DANA0586	89.316277	99.750624	110.744807	87.832785	90.744141	109.879808	111.167208	67.636792	71.45	95.626761	67.42	103.46875	92.147034	81.632705	97.628895

DANA0591	79.121058	103.384248	92.002512	126.783573	84.752498	112.49	104.634106	85.368182	93.730769	107.178571	84.958333	111.976563	82.495246	87.686939	75.812809
DANA0592	113.740992	94.990192	123.069832	99.117849	118.499339	115.802885	115.555195	108.731132	118.27	100.633803	120.37	109.070313	98.297645	108.687356	113.699473
DANA0593	87.094182	55.360136	70.216768	85.484748	61.457177	87.382042	88.52451	87.209821	82.389241	79.75	67.504545	100.556452	56.923354	68.248104	108.076004
DANA0594	98.140028	80.902404	69.351451	106.413011	106.644903	88.27	100.799669	110.077273	114.605769	123.914286	107.583333	108.507813	109.007567	103.926107	99.258471
DANA0595	74.905933	88.9707	78.83965	102.781636	87.883639	97.865	93.885762	77.677273	77.615385	100.021429	93.930556	94.117188	75.333719	65.19472	101.774397
DANA0596	96.164186	104.31044	92.689001	103.937737	72.430465	92.53	92.837748	109.668182	102.932692	89.971429	109.541667	115.1875	112.109655	102.10643	104.629893
DANA0597	105.060826	92.743319	92.466719	84.474384	94.759579	88.918269	89.266234	86.033019	101.01	84.873239	111.145	111.015625	85.261223	87.22666	91.875323
DANA0599	88.590349	97.103372	97.315607	84.287309	89.780663	88.165	101.033113	82.081818	75.25	87.228571	89.347222	104.921875	70.307948	69.888367	93.556388
DANA0600	110.040911	116.156833	108.121951	112.497166	93.929238	96.126582	156.450637	133.132353	120.070423	154.793478	128.663043	131.5	108.303363	95.401456	90.681392
DANA0602	76.906436	83.900873	76.896345	67.321856	80.305808	90.007042	94.303922	83.5	85.047468	86.178571	91.381818	109.991935	81.927586	90.541694	80.764879
DANA0603	91.171538	125.456863	114.220681	76.412107	110.580328	112.764241	125.542994	84.161765	92.394366	93.98913	99.755435	86.693548	97.341285	115.985547	90.681392
DANA0604	108.428156	107.978447	91.180998	92.183655	110.151391	101.565	103.998344	112.490909	111.634615	94.203571	105.527778	149.546875	118.785696	100.765953	109.612724
DANA0606	94.902648	122.340588	105.206387	106.211931	105.1384	106.71	114.399007	86.963636	106.403846	93.067857	98.069444	117.460938	98.030666	108.704498	105.264042
DANA0610	118.223087	83.417879	85.657817	109.520626	120.395446	100.82	108.006623	93.931818	82.903846	81.260714	110.625	93.53125	95.652835	105.575024	99.258471
DANA0611	66.452431	98.085194	90.813112	91.026663	114.502661	102.43038	78.670382	78.617647	84.556338	113.032609	100.570652	94.459677	85.797699	91.254819	89.679419
DANA0612	47.47751	71.87897	61.984822	81.352158	97.72628	78.764423	82.798701	89.839623	80.81	106.137324	81.865	85.5625	81.784912	64.258267	91.38914
DANA0613	88.393992	99.234885	94.56884	108.999112	88.626933	96.425	77.88245	106.259091	111.721154	107.435714	96.986111	93.085938	81.546701	126.810732	93.360073
DANA0614	89.314941	100.936233	95.964165	76.855472	70.978459	93.04	102.796358	94.504545	102.442308	90.078571	102.916667	90.554688	106.57632	100.673054	71.513961
DANA0615	88.676922	84.307096	100.883093	88.379412	83.899837	94.12	99.299669	104.540909	91.115385	95.178571	84.111111	92.289063	112.526308	107.718989	105.36318
DANA0616	101.442035	96.573801	92.537512	110.302178	96.578029	106.185	101.862583	87.113636	82.480769	99.871429	117.125	96.648438	102.776901	87.522503	92.36589
DANA0623	106.836074	73.086663	82.774282	80.867464	109.47373	65.971854	64.726415	75.90625	84.076923	72.93662	99.986607	88.75	81.035833	75.861104	91.007472
DANA0626	64.491735	148.611573	87.935224	114.442914	91.014553	100.019868	109.79717	83.40625	79.086538	96.915493	100.321429	94	92.723142	87.783208	80.955915
DANA0632	97.35655	92.49779	80.280142	94.350357	75.690519	101.647887	98.946078	89.366071	98.908228	111.389286	108.4	100.435484	81.466545	101.366495	111.039947
DANA0634	80.350335	128.767992	121.855474	117.031212	104.40953	109.124172	96.679245	90.316964	85.509615	104.077465	82.053571	118.336207	85.137563	84.484614	116.309885
DANA0640	94.779089	80.338445	65.0695	90.840779	88.851527	78.930464	89.674528	82.9375	90.913462	93.492958	113.821429	94.931034	91.187465	85.395446	81.892657
DANA0641	77.307964	95.548071	96.244638	121.785289	99.569052	113.674324	113.283237	109.328125	91.357692	98.447183	106.785714	111.201613	137.77627	94.073303	119.9624
DANA0642	104.630254	92.936069	90.382941	90.302927	91.056835	101.504747	107.442675	96.764706	89.140845	96.608696	94.603261	126.153226	98.021725	96.84407	89.679419
DANA0643	65.044787	92.949362	84.45237	69.036729	85.759564	93.371622	105.757225	125.421875	107.811538	96.535211	101.410714	105.758065	93.659112	92.398488	177.36489
DANA0645	53.988883	73.540931	70.101492	71.851124	124.233465	91.144231	95.168831	71.160377	93.12	77.151408	92.755	107.5	85.301564	90.185363	85.492267
DANA0646	67.153961	86.269293	85.831325	94.250609	103.545592	116.030063	113.58121	64.794118	69.21831	97.315217	102.086957	112.725806	76.258813	82.068033	111.334105
DANA0649	109.911928	95.277247	94.760195	81.529371	127.641624	106.626582	125.863057	111.397059	101.341549	105.347826	112.423913	94.556452	98.803212	120.953898	115.684902
DANA0650	80.860704	93.878047	99.474412	107.269585	110.468013	102.932692	141.206169	91.410377	86.1	90.260563	108.925	126.882813	93.424717	97.373156	101.838711
DANA0651	60.006357	104.23924	105.990466	93.996504	105.18471	107.200949	111.823248	68.25	67.739437	89.891304	102.788043	74.669355	79.288078	70.525355	100.307231
DANA0652	83.145336	100.22208	104.566609	122.581274	106.840811	120.031081	130.763006	116.734375	108.746154	126.34507	107.875	117.419355	111.011594	131.208081	177.36489
DANA0653	121.590626	78.502234	98.884314	75.249489	107.845911	84.862676	91.294118	91.1875	92.348101	101.5	103.763636	90.274194	107.209841	116.824384	88.609257
DANA0654	98.67647	87.485542	78.40939	114.299134	86.195488	100.144231	101.008117	87.632075	84.56	108.355634	101.41	104.5	84.30414	76.098134	89.732099
DANA0655	103.22703	100.819462	90.731331	120.822224	117.234248	111.524648	115.073529	99.183036	112.825949	108.807143	98.472727	91.483871	109.867657	109.616332	86.340396
DANA0656	98.103476	65.419301	75.907857	79.91131	116.795496	80.699367	87.780255	98.632353	68.742958	90.891304	99.021739	106.314516	84.551232	68.420687	68.110861
DANA0657	100.680935	78.278846	84.441625	92.334402	111.815163	94.325	83.668874	96.290909	96.586538	86.157143	71.638889	107.3125	102.146888	110.594264	94.717262
DANA0658	90.807479	64.479165	79.428658	96.391598	76.836263	106.03	107.842715	108.045455	111.692308	114.4	111.472222	88.28125	72.539786	87.937813	72.992143
DANA0659	83.761065	90.811236	95.276291	108.01584	65.782134	104.813291	108.393312	108.897059	109.03169	114.173913	84.983696	112.75	97.361936	83.327601	102.796334
DANA0660	89.28806	68.947529	74.061069	73.897392	79.335426	83.086538	71.378247	76.693396	77.51	86.140845	78.745	85.65625	75.734293	77.214337	74.835142
DANA0661	73.003475	100.866274	83.032071	95.555792	115.351076	107.609177	109.047771	87.911765	90.683099	106.423913	96.804348	102.298387	81.609136	85.868081	91.662727
DANA0662	52.834069	75.836465	96.372563	73.215216	102.262518	125.370192	99.780844	124.311321	77.11	98.732394	114.85	127.75	51.446626	64.479016	83.019975
DANA0664	76.559651	94.982102	101.986008	86.045086	69.770569	93.164865	90.206647	92.546875	109.588462	98.43662	92	103.193548	90.717877	80.487723	108.163926
DANA0665	104.412033	79.176467	67.643235	103.895466	80.863799	121.153169	98.264706	93.571429	87.392405	89.939286	108.018182	82.169355	82.261972	70.223584	81.400492
DANA0691	108.579837	59.746167	65.155126	90.336594	89.838229	76.995192	77.612013	102.25	106.78	116.045775	101.77	115.796875	97.809895	109.844198	103.434502
DANA0697	79.135556	101.554878	96.46808	109.435117	96.824861	115.07	109.789735	94.845455	106.913462	80.639286	100.541667	78.15625	120.074071	108.907347	101.316118
DANA0703	109.331345	89.963429	75.79056	99.792688	86.113187	100.68543	99.283019	109.870536	96.951923	100.169014	79.602679	116.681034	141.523337	105.086625	95.020092
DANA0704	107.974053	65.478473	69.495669	100.963364	119.184101	89.639423	95.582792	82.028302	96.78	87.007042	91.285	82.820313	107.843995	123.701372	93.309953

DANA0713	88.27382	95.547068	78.199289	92.715691	94.15149	97.913462	107.957792	96.84434	83.66	98.975352	78.28	119.453125	98.720333	86.613689	95.000589
DANA0714	90.255755	96.74485	93.905028	86.460788	93.891577	107.257042	95.421569	87.209821	90.829114	91.825	116.404545	111.58871	69.823716	63.031755	113.33319
DANA0719	106.98892	111.118126	97.210003	100.311207	114.011795	97.68662	98.715686	96.25	85.512658	96.078571	105.222727	95.064516	94.832999	82.578184	108.964698
DANA0723	108.204991	135.31144	123.358243	97.996185	96.086284	97.441456	104.877389	109.852941	115.200704	100.782609	82.701087	106.967742	136.110757	96.311645	114.881932
DANA0724	100.872393	93.717547	112.400505	135.308642	122.65734	102.490385	102.454545	82.424528	87.34	102.894366	111.49	124.28125	102.914905	79.143888	104.600381
DANA0725	109.882749	102.362458	91.677545	75.621167	56.549416	87.822115	87.829545	100.339623	97.07	96.15493	73.87	69.296875	101.015056	91.946265	81.889009
DANA0726	78.278939	82.743813	90.059877	73.092424	91.229611	84.019231	84.045455	82.566038	77.99	69.630282	109.96	105.929688	61.704517	67.644753	112.909883
DANA0727	75.34862	107.596949	96.038324	101.25486	76.123851	86.481013	97.372611	78.705882	97.612676	94.48913	97.766304	102.322581	103.15462	93.183585	91.662727
DANA0728	86.207044	63.273754	61.785138	82.916705	88.821808	91.113924	91.133758	75.617647	72.080986	87.217391	69.217391	95.814516	77.652076	73.761614	81.075199
DANA0730	102.7432	117.262626	120.740619	121.102586	104.100903	93.615	100.283113	88.518182	92.096154	116.510714	69.805556	110.664063	105.994052	93.72359	110.862469
DANA0732	114.577713	92.557074	77.888633	94.438634	124.098497	98.085	102.135762	86.731818	108.288462	89.135714	118.555556	114.695313	74.291052	65.617736	120.262412
DANA0734	128.512103	98.542101	85.052311	85.090554	103.772063	93.878378	125.599711	97.703125	102.457692	98.943662	102.464286	102.322581	109.379826	101.427615	109.450924
DANA0735	73.764146	112.968888	115.135746	111.617659	113.175781	101.785211	90.75	80.526786	86.632911	91.535714	99.236364	96.951613	87.250402	91.388071	81.233975
DANA0736	61.346014	103.287547	99.841452	72.96941	34.474728	90.8125	107.100649	67.509434	67.92	77.510563	73.255	83.828125	73.34069	70.244595	83.019975
DANA0737	96.860648	125.004656	143.76583	77.662674	100.126995	94.664557	103.964968	84.970588	98.521127	80.836957	94.701087	83.427419	98.769173	102.210805	109.03311
DANA0738	126.136183	82.014542	76.881964	91.079308	100.612958	90.115385	103.262987	110.231132	105.82	121.200704	122.44	122.382813	97.740844	74.390356	74.331212
DANA0740	109.215427	87.746439	130.835989	73.703953	106.616225	82.725962	86.923701	94.339623	101.36	102.957746	90.94	105.320313	100.095938	104.768657	138.755118
DANA0741	28.342258	96.18235	81.479017	53.784116	49.697509	70.023734	65.896497	78.441176	68.552817	55.652174	53.320652	78.080645	76.850765	53.792552	64.352594
DANA0742	107.409595	101.224983	113.445832	105.798841	93.663468	83.718919	110.122832	71.078125	85.865385	101.880282	110.767857	85.459677	98.834859	102.780949	85.896949
DANA0748	100.985735	98.145367	99.144867	94.695439	98.65169	89.515	110.693709	91.436364	98.817308	88.728571	119.319444	115.398438	109.062734	108.382116	113.14157
DANA0752	107.450064	82.815185	94.759305	95.646307	105.770158	95.557692	89.558442	93.561321	86.01	104.742958	98.305	115.703125	100.676678	84.852794	98.497216
DANA0753	98.30409	96.070883	112.357504	112.421927	91.651944	105.995192	103.472403	106.311321	98.95	115.380282	108.325	108.0625	117.574384	112.235531	103.040043
DANA0756	87.677027	110.335077	113.201146	107.269585	108.270407	104.519231	111.683442	93.660377	109.28	98.40493	106.36	85.445313	126.736642	94.780382	118.572232
DANA0757	88.568569	94.672702	80.896397	94.73086	97.138346	81.533654	79.803571	73.481132	76.95	91.992958	92.395	99.625	85.005821	91.452727	81.889009
DANA0759	99.273807	84.766396	87.008458	85.409592	99.86493	100.846154	90.386364	68.995283	102.59	94.06338	72.265	98.03125	83.2015	84.412989	86.560084
DANA0760	94.301139	73.070819	87.530028	101.332584	123.980219	89.572115	90.858766	97.877358	92.91	105.408451	88.24	112.351563	105.125705	94.840521	92.116906
DANA0761	88.410757	139.704906	105.472445	120.493273	75.596979	90	96.829545	78.660377	67.22	97.855634	109.18	104.476563	104.425164	96.502235	114.509345
DANA0762	123.950337	104.6047	74.890606	102.026266	101.016762	101.03481	103.984076	120.544118	101.330986	119.467391	111.217391	111.419355	105.775325	96.231005	115.87379
DANA0763	85.195445	98.212633	101.247647	87.847945	93.568606	111.013547	119.624204	101.335366	116.741935	111.590909	90.615385	104.267241	114.137437	113.74318	98.157132
DANA0766	92.91155	98.787049	83.34816	82.817207	103.768282	86.174877	103.63535	89.518293	96.21371	91.545455	91.942308	95.62931	104.995953	100.603387	74.141618
DANA0767	105.933613	97.216659	100.326468	89.996483	93.501121	89.5	79.496815	82.75	97.464789	117.206522	112.994565	108.056452	90.921938	78.561679	96.80465
DANA0771	58.851536	35.602808	104.138543	-21.611109	12.942218	92.758621	108.073248	101.737805	103.75	107.993007	85.730769	105.353448	35.392	-1896.592266	83.558505
DANA0772	98.836475	82.08761	88.467894	87.881225	109.332599	96.401899	95.557325	86.117647	93.102113	94.206522	85.293478	93.564516	112.388002	94.953889	107.90935
DANA0773	71.070734	67.383288	65.939986	87.352978	95.543052	100.27057	109.792994	77.852941	76	88.043478	102.168478	113.814516	99.188168	96.98096	76.688854
DANA0774	108.64502	104.729641	95.792352	110.094144	121.290432	105.793269	96.795455	73.806604	88.95	95.193662	99.43	77.40625	97.95764	87.981283	113.395411
DANA0775	116.418537	101.522832	89.270392	103.645545	77.015683	91.697115	90.23539	79.268868	87.65	82.433099	70.615	89.078125	93.642493	88.233938	85.045742
DANA0784	78.752721	93.878047	112.060205	108.735602	114.719059	99.716346	103.272727	89.5	115.49	110.014085	105.865	107.570313	93.005823	103.913319	126.81217
DANA0791	93.139423	98.313378	92.854529	92.412757	99.386134	123.673077	98.670455	145.59434	112.25	99.524648	95.68	128.148438	102.553272	101.166612	114.19375
DANA0792	81.26749	78.617636	81.479017	91.474062	115.022518	89.224684	119.280255	76.367647	82.021127	104.336957	106.456522	106.33871	84.887637	105.681724	85.007897
DANA0793	97.814327	102.71483	106.118039	115.17927	123.989175	103.375	89.003185	80.308824	86.46831	101.880435	94.048913	103.919355	86.911073	111.632068	113.345391
DANA0800	79.214832	83.454298	92.216499	88.169287	82.858763	101.177215	104.605096	95.970588	96.588028	87.108696	87.494565	134.887097	91.979168	94.725158	105.711205
DANA0801	95.195483	105.356688	107.551342	96.86047	108.124243	127.295946	112.320809	114.953125	107.523077	130.274648	111.607143	117.467742	102.807756	103.807345	98.507983
DANA0802	92.70868	92.907042	85.230534	86.576068	102.133437	96.798077	94.959416	101.966891	97.98	85.232394	105.235	119.429688	98.264865	114.008315	90.404531
DANA0804	95.775667	88.821409	91.036862	83.25316	94.926076	102.177885	125.913961	94.679245	84.77	91.253521	103.09	97.070313	91.185175	102.192728	94.246916
DANA0808	108.662381	101.960017	119.989794	108.735602	112.91367	104.240385	96.040584	114.533019	124.5	115.65493	123.715	83.265625	103.776786	114.882249	136.546263
DANA0809	102.441706	79.540097	89.06321	80.009317	111.972133	97.846154	99.829545	91.976415	76.47	110.510563	79.54	110.242188	77.888972	73.825193	90.898907
DANA0810	69.795492	82.035768	80.649191	88.613417	88.771997	96.427885	83.441558	91.495283	71.55	95.975352	66.355	122.382813	115.396069	81.017976	82.173644
DANA0811	95.312533	77.565485	86.957092	84.814969	110.570124	85.432266	95.361465	84.707317	86.451613	84.013986	98.961538	107.189655	72.800672	99.057149	85.132136
DANA0814	73.864615	74.545092	74.51019	78.462634	71.575119	100.807692	97.097403	73.283019	73.28	82.327465	81.025	73.421875	77.923205	61.270802	67.728556
DANA0816	94.53657	108.828948	127.461947	78.331557	113.21304	108.931081	119.166185	90.625	107.719231	115.010563	122.125	105.395161	104.373254	103.001433	99.923032

DANA0817	110.798718	106.466066	102.42521	91.243956	121.441534	82.433784	82.017341	78.46875	78.157692	75.757042	109.089286	91.314516	87.468914	90.849127	71.871863
DANA0818	62.34971	97.809021	111.048503	80.707465	102.216573	106.075	108.741722	69.713636	81.663462	86.510714	113.486111	92.523438	92.554171	83.760881	85.602712
DANA0819	111.474738	105.426221	112.396719	98.373248	86.583356	86.523734	100.988854	88.676471	113.669014	97.75	95.271739	108.927419	99.087978	94.537087	98.852582
DANA0820	91.123342	113.429876	75.778487	75.473509	53.83268	75.392606	80.142157	90.4375	76.778481	77.692857	75.318182	101.741935	62.335499	56.392876	74.786442
DANA0821	80.898332	70.875172	87.142198	67.480357	56.604413	99.615506	98.237261	83.279412	109.464789	84.543478	98.336957	128.258065	90.192496	92.704266	81.939948
DANA0824	96.133367	82.609792	72.195947	61.985928	52.505846	83.617568	100.49422	80.46875	74.776923	84.746479	77	87.58871	107.26146	86.395694	73.461458
DANA0826	119.727737	127.456686	138.422873	129.286455	103.599014	113.102703	127.875723	107.3125	106.796154	119.489437	121.535714	112.75	137.526616	107.893654	119.711586
DANA0838	105.581788	79.765396	76.076298	84.235616	80.250546	77.171182	77.5	83.5	66.685484	69.632867	101.211538	80.37069	102.368046	98.563167	106.380237
DANA0839	88.336001	99.079717	83.044877	82.392961	126.900302	116.807692	114.162338	94.537736	105.98	100.264085	110.89	113.5	93.582624	85.253542	96.834032
DANA0840	95.810341	119.187433	111.819446	72.867843	101.455815	111.951923	122.461039	90.306604	117.77	100.602113	107.11	94.703125	79.129897	81.827233	105.327486

Appendix B to DANA Final Report_Throughput Standard Score Pearson 2-tailed: DANA vs. ANAM Subtests

		ANAM Simple Reaction Time (1st)	ANAM Simple Reaction Time (2nd)	ANAM Code Substitution	ANAM Code Substitution Delayed	ANAM Procedural Reaction Time	ANAM Match 2 Sample	ANAM Math
DANA Spatial Processing	Pearson Correlation	.077	.090	.285**	.297**	.235**	.295**	.146**
	Sig. (2-tailed)	.122	.069	.000	.000	.000	.000	.003
	N	409	409	409	409	409	409	409
DANA Simple Reaction Time (1st)	Pearson Correlation	.326**	.289**	.149**	.126*	.242**	.240**	.082
	Sig. (2-tailed)	.000	.000	.002	.011	.000	.000	.098
	N	409	409	409	409	409	409	409
DANA Simple Reaction Time (2nd)	Pearson Correlation	.284**	.306**	.137**	.170**	.288**	.230**	.101*
	Sig. (2-tailed)	.000	.000	.006	.001	.000	.000	.041
	N	409	409	409	409	409	409	409
DANA Procedural Reaction time	Pearson Correlation	.250**	.175**	.251**	.135**	.369**	.276**	.201**
	Sig. (2-tailed)	.000	.000	.000	.006	.000	.000	.000
	N	409	409	409	409	409	409	409
DANA Match 2 sample	Pearson Correlation	.223**	.175**	.263**	.167**	.254**	.457**	.134**
	Sig. (2-tailed)	.000	.000	.000	.001	.000	.000	.007
	N	409	409	409	409	409	409	409
DANA Code Substitution Delayed	Pearson Correlation	.050	.012	.036	.059	.006	.083	.006
	Sig. (2-tailed)	.312	.814	.473	.235	.909	.092	.907
	N	409	409	409	409	409	409	409
DANA Go-No-Go	Pearson Correlation	.231**	.244**	.254**	.188**	.291**	.179**	.120*
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.015
	N	409	409	409	409	409	409	409
DANA Code Substitution	Pearson Correlation	.153**	.169**	.496**	.369**	.339**	.296**	.309**
	Sig. (2-tailed)	.002	.001	.000	.000	.000	.000	.000
	N	409	409	409	409	409	409	409

Significance at 0.05 *

Significance at 0.01**

Appendix C

HQ US Army Medical Research and Materiel Command Office of Research Protections Institutional Review Board Office

Protocol Deviations Tracking Log

Please record protocol deviations on this log that do not require prompt reporting; add more lines as needed. Submit the tracking log with the continuation report at the time of the protocol's continuing review. NOTE that any deviation that may have an effect on the safety or rights of the subject or the integrity of the study must be reported to the HQ USAMRMC IRB as soon as the deviation is identified.

Protocol Number: M-10284	Principal Investigator: Harvey D. Watson Ph.D. (February 3, 2014 – Present)
Title: Establishing a Normative Data Sample in an Active Duty Military Population for the Defense Automated Neurobehavioral Assessment (DANA)	

Deviation number	Subject	Date	State the protocol deviation and describe processes implemented to prevent their recurrence	Steps Implemented to Prevent Future Deviations
1	Dana022 1	9/23/13	Subject checked that they would provide their social security number for the ANAM comparative study on the Informed Consent Document and provided their social security number, but they did not initial in the space provided. Information was kept and used in data set as well as comparative study.	All researchers have been reminded to verify that Consent and HIPAA forms are properly filled out by Participant prior to releasing them from study.
2	Dana040 6	10/16/20 13	Subject agreed to provide social security number for the optional comparative study however. Upon review of documents researcher found that participant did not provide full SSI number, required for the comparative study. All data collected for the DANA normative study will be included in the data set; participant will be excluded from the comparison study.	All researchers have been reminded to verify that Consent and HIPAA forms are properly filled out by Participant prior to releasing them from study.
3	Dana065 3	12/23/20 13	Subject agreed to provide social security number for the optional comparative study however. Upon review of documents researcher found that participant did not provide full SSI number, required for the comparative study. All data collected for the DANA normative study will be included in the data set; participant will be excluded from the comparison study.	All researchers have been reminded to verify that Consent and HIPAA forms are properly filled out by Participant prior to releasing them from study.
4	Dana070 5	01/06/20 14	Subject agreed to participate in the study and was given a participant number and added to the master log, but chose to withdraw from the study prior to starting any testing. Participant took signed ICD and HIPAA documents upon their withdrawal, so no signed ICD or HIPPA are accounted for within the study's records. A memo for record has been	All researchers have been reminded or proper protocol procedures on handling withdrawals and collecting signed paperwork once participant has been inputted into the Master Logs.

Protocol Deviations Tracking Log

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			created as a place holder for this participant for study tracking/auditing purposes.	
5	DANA079 3-0798 to DANA080 2-0810	04/10/20 14 to 04/17/20 14	Participants during this time may have signed or been given a HIPAA and ICD form that did not have the IRB Approval Stamp on the bottom right corner of the page. The stamped and un-stamped forms are identical to each other in content, and participants that signed and/or received the unstamped forms were given the same information as participants that signed and/or received the stamped forms. Actions taken: 1) removing and shredding any unstamped ICD and HIPAAs located on site, 2) informing all researchers of oversight 3) reviewing ICD and HIPAA binders assembled since new IRB Approval was given.	The research team has destroyed all unused forms so they are no longer in circulation and the proper documents have been printed in order to ensure that the correct forms are being used. Future copies were verified prior to printing to match the required documents as per IRB approval.
6	Dana081 2	04/18/20 14	Subject was consented and tested outside of protocol requirements that a maximum of 100 participants is allowed in each age bin. Researcher reviewed the total numbers after participant had returned the device and completed all test sections. Their ICD and HIPAA forms will be kept on record. All researchers were advised to no longer recruit for this age group for the duration of the study.	All researchers were advised to no longer recruit for this age group for the duration of the study. Age/Gender Bin list was updated and provided to all Researchers.
7	Dana056 2 & Dana062 0	04/23/20 14	Subject completed the study on two separate occasions, 06 December 2013 and 17 December 2013, by two separate researchers. The participant did not inform the research team that he/she had taken the test on the first date, and so was given the test a second time. All procedures were followed as per the protocol by both researchers. Researchers have been advised to ask potential subjects if they have taken the study previously. A memo of record will be placed along with both sets of signed ICDs and HIPAAs.	All researchers have reviewed protocol requirements and were informed to verify that potential participants had not completed the study prior.
8	Dana048 5, 0486, 0784, 0785, 0786	06/19/20 14	Assistant Investigator (AI) has administered tests to friends and family members off site and/or outside hours of operation. The identified participant numbers are those tested by the AI. To prevent possible ethical issues, other research personnel should have administered the test to these participants. It is unknown what Protocol standards the AI took to protect participant confidentiality and privacy during the time period they possessed the devices and participant records. All records are in possession and	All researchers have reviewed protocol, IRB, and ethical practices when assessing potential participants that may have a relation with researchers.

Signature of Principal Investigator
MRMC IRBO Deviation Tracking Log 15May2013

Date

Protocol Deviations Tracking Log

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			secured along with all other collected records.	
9	DANA 0019,003 0,0145,0 160,0191 ,0246,04 40,0479, 0620,065 9,0793,0 830	06/30/20 14	An Internal Audit for the DANA Protocol was conducted comparing age and gender categories between Subject Master Logs to the downloaded data sent to AnthroTronix Inc. The listed numbers did not have matching age groups between the two. Corrections to the Master Log and to the Daily Log Count will be made and a recalculation of the age/gender bins will follow. Additional Deviations may be required as some age bins are said to be maxed at 100 Participants as is.	A new Age/Gender count was created with corrections and was given to researchers. All were advised on which categories to avoid and verify participant's ages.
10	DANA 0473, 0476, 0456, 0675	6/30/201 4	An Internal Audit for the DANA Protocol was conducted to verify that all DANA numbers are correct and correctly entered between the Subject Master Logs and downloaded data records. The listed numbers were found duplicated within the uploaded record logs to AnthroTronix Inc. Corrections to the Optional ANAM Comparison study will be made once direction is given from either sponsor or PI.	All researchers have been informed of the deviation and informed to verify that the correct DANA ID number is assigned prior to participants beginning study.
11	DANA 0718, 0787, & 0843	7/28.201 4	Corrections were added to the DANA Daily Log Count after completion of the Internal Audit and IRB Audit. A previous deviation stated that incorrect ages were inputted in the Master Logs compared to the downloaded data records. This correction shows that the listed subjects were consented and tested outside of protocol requirements of a maximum of 100 participants are allowed in each age bin: DANA 0718 and DANA 0787 (Males 18-19), as well as DANA 0843 (Females 20-24). Their ICDs and HIPAAs forms will be kept on record. All researchers were advised of these corrections and verify that no recruit for this age group for the duration of the study.	All researchers have been informed of the deviation and informed to verify that the age category was circled on the Master Logs prior to participants beginning study. However, participants may incorrectly select their age group on device.
12	DANA08 35	7/28/201 4	ICD & HIPAA for participant was found to be missing the date for the HIPAA form and the Researcher's signature page. Participant took test on 6/5/2014 but the mistake was not discovered till 6/11/2014 by another researcher. Consenting Researcher was informed to input the correct date, initial by it, and input the date of correction. However, consenting researcher inputted 6/11/2014 as the date they consented the participant, and was once again asked to correct date, initial by it, and input the date	All researchers have been reminded to verify that Consent and HIPAA forms are properly filled out by Participant and Consenting Researcher prior to releasing participant from study. Researchers were reminded on proper procedures in correcting ICD and HIPAA as per IRB.

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			of correction. Researcher was informed to be at tentative to their dates and corrections.	
13	DANA0063	8/26/2014	(FINAL AUDIT VOLUME 1): Participant date on ICD was corrected twice by Participant. The sequence following: 22 AUG 13 changed to 23 AUG 13 changed back to 22 AUG 13. Consenting researcher mistakenly asked participant to change the date to the 23 rd when the participant was originally correct.	All researchers have been reminded to verify that Consent and HIPAA forms are properly filled out by Participant and Consenting Researcher prior to releasing participant from study. Researchers were reminded on proper procedures in correcting ICD and HIPAA as per IRB.
14	DANA0261	8/26/2014	(FINAL AUDIT VOLUME 3): Participant did not date HIPAA form, Research Assistant later filled in the date and initialed-by when discovered. Participant agreed to provide social security number for the optional comparative study however. Upon review of documents researcher found that participant did not provide full SSN required for the comparative study. Researcher corrected the document and initialed. All data collected for the DANA normative study will be included in the data set; participant will be excluded from the comparison study.	All researchers have been reminded to verify that Consent and HIPAA forms are properly filled out by Participant and Consenting Researcher prior to releasing participant from study. Researchers were reminded on proper procedures in correcting ICD and HIPAA as per IRB.
15	DANA0301	8/26/2014	(FINAL AUDIT VOLUME 3): Research Assistant initialed by Participant's own initials to their correction for choosing not to provide SSN for comparative study.	All researchers have been reminded to verify that Consent and HIPAA forms are properly filled out by Participant and Consenting Researcher prior to releasing participant from study. Researchers were reminded on proper procedures in correcting ICD and HIPAA as per IRB.
16	DANA0221	8/26/2014	(FINAL AUDIT VOLUME 3): Participant checked yes and provided SSN for comparative study but did not provide initials. Research Assistant gave initial's and dated by the space provided. ANAM records were pulled for this participant.	All researchers have been reminded to verify that Consent and HIPAA forms are properly filled out by Participant and Consenting Researcher prior to releasing participant from study. Researchers were reminded on proper procedures in correcting ICD and HIPAA as per IRB.
17	DANA0418	8/26/2014	(FINAL AUDIT VOLUME 4): Participant originally checked to provide SSN for comparative study by providing initials and checking YES. Participant then changed their mind, marked through their check and checked NO instead, but did not provide initial's for correction. Researcher provided initials and date when discovered.	All researchers have been reminded to verify that Consent and HIPAA forms are properly filled out by Participant and Consenting Researcher prior to releasing participant from study. Researchers were reminded on proper procedures in correcting ICD and HIPAA as per IRB.
18	DANA0372	8/26/2014	(FINAL AUDIT VOLUME 4): Participant originally checked to provide SSN for comparative study by providing initials and checking YES. Participant then changed their mind, marked through their check and checked NO	All researchers have been reminded to verify that Consent and HIPAA forms are properly filled out by Participant and Consenting Researcher prior to

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			instead, but did not provide initial's for correction. Researcher provided initials and date when discovered.	releasing participant from study. Researchers were reminded on proper procedures in correcting ICD and HIPAA as per IRB.
19	DANA03 74	8/26/201 4	(FINAL AUDIT VOLUME 4): Participant originally checked to provide SSN for comparative study by providing initials and checking YES. Participant then changed their mind, marked through their check and checked NO instead, but did not provide initial's for correction. Researcher provided initials and date when discovered.	All researchers have been reminded to verify that Consent and HIPAA forms are properly filled out by Participant and Consenting Researcher prior to releasing participant from study. Researchers were reminded on proper procedures in correcting ICD and HIPAA as per IRB.
20	DANA05 12	8/26/201 4	(FINAL AUDIT VOLUME 5): Participant did not date HIPAA form, Research Assistant later filled in the date and initialed-by when discovered.	All researchers have been reminded to verify that Consent and HIPAA forms are properly filled out by Participant and Consenting Researcher prior to releasing participant from study. Researchers were reminded on proper procedures in correcting ICD and HIPAA as per IRB.
21	DANA05 82	8/26/201 4	(FINAL AUDIT VOLUME 6): Research Assistant initialed and dated by Participants self-corrected mistake on HIPAA form. Participant signed on both "Printed Name" and "Signature" lines, crossed through their signature on the "Printed Name" line and printed their name after.	All researchers have been reminded to verify that Consent and HIPAA forms are properly filled out by Participant and Consenting Researcher prior to releasing participant from study. Researchers were reminded on proper procedures in correcting ICD and HIPAA as per IRB.
22	DANA06 66	8/26/201 4	(FINAL AUDIT VOLUME 7): Participant did not wish to give Full name on ICD and HIPAA form; First initial and Last name one. Researcher asked Study Director if participant's choice would exclude them from the study. Study Director instructed researcher to allow participant to sign as they requested and complete testing.	All researcher have been informed that participants need to provide their full name on both their ICD and HIPAA forms. All collected data is paired with a de-identified DANA ID as per protocol.
23	DANA08 34	8/26/201 4	(FINAL AUDIT VOLUME 8): Participant checked NO to providing SSN for comparative study but did not provide initials. Missing initials were not discovered until completing final audit. Researcher initialed and dated next to Space provided.	All researchers have been reminded to verify that Consent and HIPAA forms are properly filled out by Participant and Consenting Researcher prior to releasing participant from study. Researchers were reminded on proper procedures in correcting ICD and HIPAA as per IRB.

Comments: The Study Director is no longer allowed access to test study participants of the Master Data File.

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Appendix D

Detailed Description of DANA

General

The Defense Automated NeuroBehavioral Assessment (DANA) is a clinical assessment tool developed for the Department of Defense for use in the field. The goal of DANA is to create and validate an assessment instrument that will assist first and second line providers in the field in determining type of impairment and level of functioning. DANA will assist providers with assessing fitness for duty and triage needs. It is intended to aid medical personnel in making an informed disposition in the case where a Service Member may be experiencing difficulty due to brain injury or combat-related physical exhaustion or emotional distress.

Dana Version 1.2:

This version of DANA is designed for establishing reference population datasets that represent a variety of subgroups of service members (e.g., pre-deployed vs. post-deployed, men vs. women). By collecting data with service members across a range of demographics, DANA will be a more applicable neurocognitive assessment tool. In addition, DANA will then be capable of reporting service member performance relative to both individual past performance and cohort (e.g., women) performance.

DANA is intended to assist at three levels of care:

- 1) **Front-line Care Providers** in the field (medics, corpsmen) who suspect that the Service Member:
 - o Has **recently sustained a head injury**. In this case a 5-minute, rapid, concussion screening battery can be administered (**DANA Rapid**) after the Service Member is safe and stable, and symptoms appear to have diminished (typically 24-48 hours following an incident).
Impairment, as measured by poor performance with DANA Rapid, may indicate the need to send the Service Member for a second line assessment. In the case of questionable results, the DANA Rapid can be re-administered within 24 hours to see if function improves.
 - o Is suspected of impaired performance due to any cause, such as a head injury, physical exhaustion, distress due to emotional trauma, or other reasons. In this case, a brief, 20-minute neurobehavioral battery can be administered (**DANA Brief**). Impairment, as measured with DANA Brief, may indicate the need to send the Service Member for a second line assessment. In the case of questionable results, the DANA Brief can be re-administered at any time to see if function improves.
- 2) **Generalist Providers** (General Medical Officers, Clinical Psychologists, and other allied health professionals) at a second-line care facility (e.g., Battalion Aid Station), who desire support in determining:
 - o **Specific cause** of the dysfunction (concussion, general combat fatigue, emotional trauma)

- o **Severity of the dysfunction** (degree of impairment in specific areas of cognitive, emotional, and somatic functioning),
- o **Disposition** for what treatment to provide, when to return the Service Member to duty, or if to triage to a higher level of care.

For these purposes, the full 45-minute battery can be administered (**DANA Standard**), providing a summary of functioning in cognitive, emotional, and somatic domains, as well specific results by test. Ideally, the Provider will have access to DANA Rapid or Brief data previously administered in the field by a Front-line Responder.

- 3) **Specialist Providers** (Neuropsychologists, Neurologists, Psychiatrists) who wish to delve into the details of specific test results in order to obtain more fine-grained information.

DANA is intended to provide support that is most needed at each of these three levels of care, with appropriate tests and reports. Data and corresponding reports can be viewed on the screen, as well as uploaded to a PC in order to support report writing and integration with medical records.

DANA Objective

The objective of DANA development and data collection is to create and validate a NeuroBehavioral assessment instrument that will:

- 1) Assist first responders and second line providers in the field to determine the cause and severity of suspected impairment:
 - o Adequately assess if a behavioral problem exists (improved sensitivity).
 - o Discriminate between concussion and deployment-related stress (improved specificity).
 - o Help determine the severity of the problem.
- 2) Assist with the determination of fitness for duty vs. the need for a higher level of care.

Purpose of DANA

The DANA tool was developed in an effort to mitigate the limitations associated with ANAM testing. DANA draws from the best that ANAM and other tools have to offer:

- Using standardized neuropsychological tests sensitive to change;
- Distinguishing among concussion, deployment exhaustion, and emotional distress through incorporating behavioral assessments;
- Allowing for multiple baseline assessments under field deployable conditions by First-Line responders (corpsman / medic), as well as senior medical personnel in order to capture true baseline status during deployment;
- Allowing for testing to occur close to the time of an incident;
- Easily administered and utilized by first line responders as well as advance medical personnel;
- Obtaining post incident testing as needed in the field;
- Determining the validity of the testing session through tests of effort; and
- Interpreting expected change with repeat administrations through establishing a “reliable change index.”

DANA System Components

There are six main components that comprise the DANA system:

- | | |
|--|------------------------|
| 1. DANA Data Manager application (software) | |
| 2. PC used to manage data / configure mobile computer (hardware) | |
| 3. PC operating system (software) | PC / Data Management |
| <hr/> | |
| 4. DANA application (software) | |
| 5. Mobile computer used to administer DANA (hardware) | |
| 6. Mobile computer operating system (software) | Mobile Data Collection |

These six components can be divided into two categories: (a) software and (b) hardware. The main components of the DANA system are shown in the figure below.

DANA application



DANA Data Manager application



**Mobile computer, Tablet
Operating system**



**PC & Mac
Operating systems**

DANA Hardware

This section focuses on the mobile computer hardware used to administer DANA.

This hardware can and should vary depending on the context and environment in which it is being used. The primary application of DANA is for use in the field. For such use, a smaller, rugged mobile computer should

be used. A second application of DANA is for use with active duty or veteran service members in a clinical setting. For this use, a tablet computer might be more appropriate (larger screen).

For administering DANA in a clinical environment, a tablet computer might be more appropriate to use than a rugged handheld. One tablet computer that is recommended is the 8.9 inch Samsung Galaxy Tab (see

Figures 3-5 below). **Figure 4** shows the Android Home screen, with the *Apps* (Applications) icon in the top right.



Figure 3



Figure 4

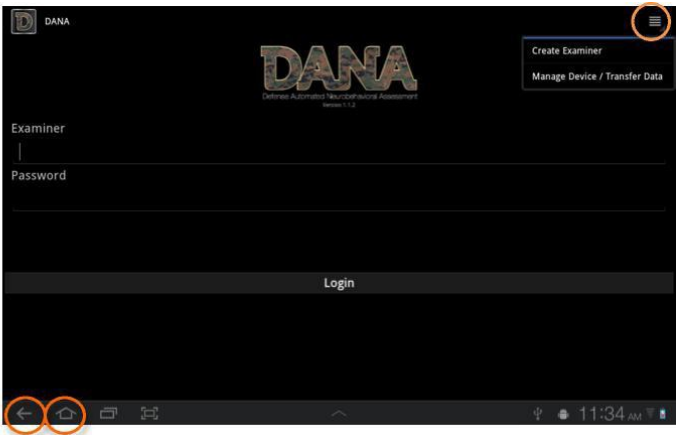


Figure 5

Anatomy of DANA

The table below displays a quick summary of the components and characteristics of DANA.

Environment	Test Batteries	Output
Programmed in Android Hardware Flexible  • Handhelds (e.g., Nomad) • Tablets (e.g., Galaxy Tab) • Phones (e.g., Fortis X)	3 Test Batteries DANA Rapid (5 min) 3 cognitive tests • Front • Line • Corpsman / Medic DANA Brief (15 min) 5 cognitive, 3 psychological tests • Front • Line • Corpsman / Medic DANA Standard (45 min) 7 cognitive, 5 psychological tests • 2nd / 3rd Line • Generalist / Specialist	Full Report • Overall “heads-up” summary • Summaries for each test • Response details HTML or PDF format  Raw Data For statistical analyses CSV format XML Report Individual test question parameters Response details Allows custom report generation

DANA Standard

Who: Specialist Providers (Neuropsychologist, Neurologist, PTSD Specialist)

Where: Third-Line Care

Why: Suspect Impairment Due to Any Cause

Action: Use *DANA Standard and Full Report*

This full assessment battery requires approximately 45 minutes and assesses the Subject’s cognitive functioning, and factors suggesting combat fatigue and emotional distress. The Subject may have been referred following concerns supported by screening on the DANA Rapid (concussion) or DANA Brief (lowered function due to any cause); or the Subject may have already been administered the DANA Standard. The DANA Standard is intended to assist licensed healthcare providers in their determination of problem type, extent, and disposition. The Basic Report is intended to aid the first responder in their disposition, whereas the Full Report is intended to assist the generalist provider as the type and extent of possible impairment.

- 1) Transport the Subject to a secure location.
- 2) Turn on and unlock the mobile computer screen.
- 3) Launch DANA.
- 4) Log into DANA.
- 5) Create or select the Subject by selecting Select/Add Person.

- 6) Select Select Screening and then select DANA Standard from the list that appears.
- 7) Select Start Screening twice in a row.
- 8) Read the Sample Script to the Subject <see Sample Script on page 11>.
- 9) Hand Device to Subject to start the assessment.
- 10) Instruct Subject to read the directions carefully and select Start Screening.
- 11) Once the Subject is finished with the assessment, the screen will instruct the user to Return the device to the Examiner.

Upon conclusion of testing, the Examiner will be able to receive a series of reports with increasingly detailed information.

To view the results:

- 1) Once a screening has been completed, select Screening Completed if the Subject has not done so already. This will bring you back to the login screen. (The Examiner is effectively logged out once a screening is begun, for data security reasons.)
- 2) Log into DANA.
- 3) The Subject who most recently tested will be displayed with the option of viewing the results. The Basic Report is the default report type. The Basic Report is adequate for most first line responders.
- 4) To view this report, select *View Results*. The black arrow will point to a spot on the multi-colored spectrum – the three options are: Green (*Good to Go*), Yellow (*Retest within 24 hours*), and Red (*Refer to Higher Level of Care*) – see Figure 2 and explanation below.

Green (Good to Go) - * Testing reveals no evidence of significant impairment in any of the domains assessed. Supports disposition of cleared to return to duty without further assessment.

Yellow (Retest at a Later Time) - Testing in a particular domain is inconclusive. Subject should be reevaluated after 24 hours. If Retest at a Later Time continues, this test battery may not be adequate to reveal the issues experienced by this Subject in this domain.

Red (Significant Concern) - Testing reveals likelihood of significant impairment in at least one domain.



Figure 2: Initial Data Outcome