

**PONTIFÍCIA UNIVERSIDADE CATÓLICA DE MINAS GERAIS
PROGRAMA DE PÓS-GRADUAÇÃO EM ENGENHARIA ELÉTRICA**

AUMENTO NA EFICIÊNCIA DE OPERAÇÃO DE MÁQUINA DE MINERAÇÃO USANDO TECNOLOGIA FUZZY

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DISSERTAÇÃO DE MESTRADO

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BELO HORIZONTE, MG

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Dissertação apresentada ao
programa de Pós-Graduação em
Engenharia Elétrica, da Pontifícia
Universidade Católica de Minas
Gerais – PUC-MG, como requisito
parcial para a obtenção do grau de
Mestre em Engenharia Elétrica.

Pontifícia Universidade Católica de Minas Gerais

Belo Horizonte, MG

2007

AGRADECIMENTOS

Primeiramente a DEUS, meu eterno guia, sem o qual nada seria possível de se realizar.

Ao Prof. Doutor Petr I. Ekel pela paciente e segura orientação durante o desenvolvimento deste trabalho.

Ao Prof. Doutor Pyrâmo Costa Júnior, pela co-orientação e preciosas sugestões apresentadas ao trabalho.

Aos docentes, funcionários e técnicos do programa de pós-graduação em engenharia elétrica da PUC-MG, pela colaboração e atenção em todos os momentos. Em especial à amiga Isabel Siqueira.

À CVRD, pela confiança, apoio e financiamento da pesquisa.

À minha família, especialmente a minha esposa, Eliane Prado Silva Balbino e a minha filha Débora Prado Balbino (*in memoriam*), pelo estímulo, carinho e paciência que sempre tiveram. A eles, minha eterna gratidão e saudade.

De forma geral e impessoal, a todas as pessoas que direta ou indiretamente contribuíram para a realização deste trabalho.

RESUMO

O presente trabalho é dedicado à melhora da eficiência de operação de uma perfuratriz rotativa de grande porte utilizada no processo de mineração. Esta melhora está baseada no desenvolvimento de um modelo de controle que utiliza tecnologia de lógica fuzzy como alternativa ao controle PID convencional do sistema avanço e ao controle manual da velocidade de rotação da haste.

No processo estudado, o sistema PID de avanço não atende as exigências de controle em situações críticas, quando é esperado que o controle se adapte e responda rápido aos distúrbios provenientes das mudanças nos perfis rochosos durante as perfurações para que não haja perda de produção. Isso somente é possível com a intervenção dos operadores humanos experientes em ações manuais de controle que demandam um grande esforço de raciocínio em manobras operacionais complexas. Outro ponto de melhoria está no controle manual de velocidade do sistema de rotação que se baseia na experiência do operador. O problema reside na dificuldade do operador manter o sistema de rotação trabalhando dentro dos limites de carga permitidos, quando ocorrem certas dificuldades operacionais, como instabilidade dos processos interativos (controle automático de avanço). A operação fora da região delimitada pela especificação do fabricante significa sobrecarga, situação que pode danificar o equipamento. Essas condições de controle aliadas à demanda por produção causam nos operadores muita pressão psicológica o que pode comprometer sua eficiência.

Como solução é proposto um controlador fuzzy tipo Mamdani baseado em regras com modelagem de variáveis lingüísticas. A idéia é “capturar” o conhecimento do operador especialista através de procedimentos de lógica fuzzy.

Os resultados do trabalho são direcionados a aplicações práticas na Cia Vale do Rio Doce.

Palavras-chave: Perfuração de rochas; Perfuratriz rotativa; Cia Vale do Rio Doce; Controle PID; Controle humano; Controle fuzzy.

ABSTRACT

The present work is dedicated to improvement the operation efficiency of a blasthole drill machine used in the mining process. This improvement is based on the development of a control model that uses fuzzy logic technology as alternative to conventional PID control from the pulldown system and the manual speed control of rod rotation.

In the studied process, the pulldown PID system does not reach the control requirements in critical situations. In this situation is expected that the control adapt and answer fast the perturbations which are proceeding from the changes in the rocky profiles during the drilling's process so that it does not have loss of production. This is only possible with the intervention of experienced human operators through manual actions of control that demand a great reasoning effort in complex operational maneuvers. Another improvement point is in the manual speed control of the rotation system that is based on the operator's experience. The problem is the difficulty for operator to keep the rotation system working inside of the allowed load limits when certain operational difficulties occur, as instability of the interactive processes (automatic pulldown control). The operation out of the region delimited for the manufacturer specification means overload that can damage the equipment. These control conditions allied with the demand for production cause in the operators much psychological pressure what can compromise their efficiency.

As solution, it is proposed a Mamdani's fuzzy controller type based on rules which are modeling with linguistic variable. The idea is "to capture" the knowledge of the specialist operator through fuzzy logic procedures.

A practical application of this work results is intended in the Vale do Rio Doce Company installations.

Key-words: Drilling rocks; Blasthole drill machine; Vale do Rio Doce Company; PID control; Human control; Fuzzy control.

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LISTA DE SÍMBOLOS, ABREVIATURAS E SIGLAS

CVRD:	Companhia Vale do Rio Doce
CLP:	Controlador Lógico Programável
<i>FP</i>	Força de Penetração (avanço)
<i>RH</i>	Rotação da Haste
<i>VH</i>	Vibração da Haste
<i>CMR</i>	Corrente Motor de Rotação
<i>PH</i>	Pressão Interna da Haste
<i>VH</i>	Vibração da Haste
S_{ik}	Variância da Amostra
r_{ik}	Coeficiente de Correlação
FLC	Fuzzy Logic Contrloler
DDC	Digital Direct Control

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ORGANIZAÇÃO DO TRABALHO

Capítulo 1 – Introdução

Introdução do tema com abordagem inicial do problema e das ferramentas propostas para a solução (técnicas de Estatística e tecnologia Fuzzy), os objetivos a serem atingidos e a justificativa sobre a relevância do problema pesquisado.

Capítulo 2 – Abordagem Estatística do Processo da Perfuratriz

Este capítulo descreve a primeira tentativa de modelagem do problema estudado usando abordagem estatística multivariada. É proposto um modelo de regressão linear (com base no banco de dados do *anexo 1*) e em seguida é verificado a qualidade de sua representação. O capítulo é concluído com a verificação da não linearidade do processo da perfuratriz e a abertura para aplicação da tecnologia fuzzy.

Capítulo 3 – Análise da Bibliografia

Este capítulo trata da revisão da literatura. São feitas algumas considerações gerais e básicas a respeito dos conceitos, definições, axiomas dos procedimentos da tecnologia fuzzy. O capítulo também aborda as metodologias para o projeto e concepção de controladores lógicos fuzzy, suas formas de aplicações e uma breve consideração sobre os controladores PID.

Capítulo 4 – Construção do Modelo Fuzzy Para o Controle da Perfuratriz

Reservado à descrição do contexto ao qual está inserido o problema e a descrição do funcionamento da perfuratriz. Segue o capítulo com a concepção do modelo do controlador fuzzy proposto para o controle dos sistemas de rotação e de avanço. Ao final são apresentadas as necessidades para a implantação do hardware do sistema fuzzy proposto na perfuratriz.

Capítulo 5 – Resultados Obtidos

Descrição dos testes realizados numa simulação com dados das condições reais de operação. São realizadas análises de comportamento do controlador fuzzy frente às situações críticas simuladas e a comparação dos resultados obtidos com o do controle PID e operador especialista.

Capítulo 6 – Conclusões

Este capítulo Apresenta a conclusão do trabalho e os objetivos alcançados frente à solução proposta e sugestões para trabalhos futuros relacionados ao tema.

Anexo 1

Contém o registro de dados das variáveis da perfuratriz dos quais foram extraídos os dados que formaram a base de modelagem do processo estudado.

CAPÍTULO 1

INTRODUÇÃO

1.1 - Processos de Mineração e sua Modelagem

A mineração abastece o mercado global com produtos que dão origem a uma infinidade de elementos presentes no dia-a-dia de milhões de pessoas em todo o mundo. Exportados para diversos países, os minérios passam por transformações e são incorporados aos costumes locais na forma de novos produtos de uso comum – de carros a aviões, de fogões a computadores, além de serem largamente empregados na construção de estruturas e fundações [1], [39] e [41].

As etapas da extração do minério de ferro contemplam as fases de perfuração, desmonte, escavação, transporte e beneficiamento.

A perfuração das rochas é a primeira operação que se realiza e tem como finalidade abrir furos com distribuição e geometria adequada dentro dos maciços rochosos para alojar as cargas de explosivos e acessórios iniciadores. A conclusão desta etapa seguida da detonação possibilita a escavação e o carregamento do minério através de escavadeiras e caminhões fora-de-estrada até as áreas de Britagem e Tratamento onde ocorre o beneficiamento. Sem a perfuração e o desmonte, torna-se impossível a escavação do material devido a sua dureza e resistência à fragmentação [16] e [41].

Segundo [2], [53] e [54], embora exista uma predominância de um determinado tipo de material na rocha, na prática não é possível garantir a homogeneidade do perfil geológico de uma determinada região. Como consequência, durante o processo de perfuração é natural encontrar vários tipos de rochas ou níveis de dureza diferentes de uma mesma rocha em determinados furos.

Neste contexto, estão inseridas as perfuratrizes rotativas de grande porte (objeto deste estudo) responsáveis diretamente pela perfuração propriamente dita das rochas.

As perfuratrizes rotativas são equipamentos eletromecânicos de grande porte que possuem sistemas de controle baseados na utilização de inversores de frequência e controlador lógico programável (CLP) [18]. Esse sistema de controle mesmo utilizando tecnologia de ponta, ainda não é capaz de se “adaptar” a todas as variações das condições operacionais provocadas pela variabilidade dos níveis de dureza dos maciços rochosos. Tais ocorrências têm, com certa frequência, levado a perda de sintonia do controlador PID do sistema de perfuração automática da perfuratriz (controle da força de avanço) e, conseqüentemente, a perda de eficiência de perfuração com reflexos negativos sobre a produção.

Diante destas situações, os operadores são muitas vezes obrigados a intervir no comando, transferindo o controle de avanço (penetração) para modo manual na tentativa de manter o desempenho do equipamento dentro da meta de produção.

Outro ponto de melhoria está no controle manual de velocidade do sistema de rotação. O controle se baseia na experiência do operador especialista que tem como premissa a seguinte teoria:

- a) a rocha branda requer menor pressão e rotação mais rápida;
- b) a rocha dura necessita de alta pressão e rotação mais lenta.

O problema reside na dificuldade do operador manter o sistema de rotação trabalhando dentro dos limites de carga permitidos, quando ocorrem certas dificuldades operacionais, como instabilidade dos processos interativos (controle automático de avanço). De acordo com [8], a operação fora da região delimitada pela especificação do fabricante significa sobrecarga, situação que causa nas brocas danos de grandes proporções como pode ser visto na *Figura 1.1*.

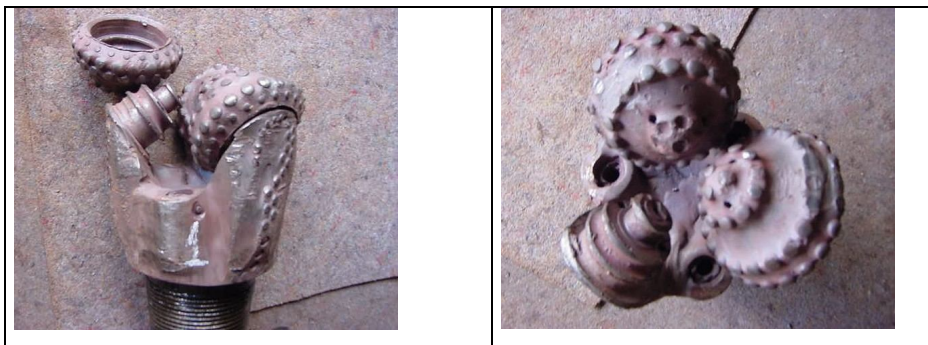


Figura 1.1 – Broca tricônica danificada

No primeiro tratamento dado ao problema, tentou-se aplicar técnicas de estatística de regressão multivariável nas variáveis do processo de perfuração (ver Capítulo 2). Nessa primeira análise ficou evidente tratar-se de um processo altamente não linear e de difícil solução pelos métodos matemáticos tradicionais.

Durante as últimas décadas, os pesquisadores e especialistas vêm buscando alternativas para solucionar problemas de modelagem de processos não lineares.

A teoria de controle clássica vem tendo sucesso em áreas onde o sistema é bem definido, mas tem falhado ao se deparar com a imprecisão de muitos processos industriais não lineares, apesar do uso de ferramentas matemáticas poderosas [22], [23] e [47].

A dificuldade ou a impossibilidade de se obter a identificação destes sistemas direcionam as pesquisas ao campo da Inteligência Artificial [12], [14], [21], [36] e [43]. O objetivo é procurar métodos alternativos que propiciassem a construção de modelos alternativos aos métodos matemáticos rigorosos e que possam superar algumas das dificuldades que o construtor de modelos enfrenta como a representação do conhecimento intuitivo e subjetivo. A meta comum desses métodos é resolver problemas que resistam aos métodos convencionais de análise e identificação de sistemas.

Na metodologia convencional de projeto de sistemas de controle, o que é modelado é o processo que está sendo controlado. Esse procedimento é chamado por identificação de sistemas, onde o sistema é assumido como linear ou aproximadamente linear caracterizado por um conjunto de equações diferenciais, cuja solução indicaria ao controlador como os parâmetros deveriam ser ajustados para um determinado comportamento do sistema. Por outro lado, em muitos sistemas não afeitos ao controle automático, operadores humanos estão sendo ainda empregados, e a metodologia de projeto está focalizada no comportamento dos operadores, isto é, como eles ajustariam os parâmetros de controle para um determinado conjunto de circunstâncias [23] e [42].

A experiência de [24] mostra que a quantidade limitada de informações que o ser humano consegue receber e processar por unidade de tempo o coloca como uma realimentação “frágil” na malha do controle automatizado de sistemas complexos. Para superar isso, é

necessário utilizar técnicas e desenvolver procedimentos que transmitam aos computadores as facilidades, inerentes ao homem de controlar sistemas complexos, possibilitando com isso, que os mesmos resolvam os problemas com o raciocínio de um operador experiente, porém com uma melhora significativa na eficiência das soluções.

Assim, com o auxílio de algumas ferramentas, tenta-se emular os especialistas humanos na execução de uma tarefa específica através dos sistemas especialistas [43]. Por outro lado, ferramentas baseadas em Tecnologia Fuzzy preocupam-se com o tratamento das incertezas e imprecisões inerentes ao raciocínio humano e dos fenômenos observados [44]. Enquanto outras, ainda, tentam reproduzir algumas virtudes dos seres vivos, como a sua capacidade de aprender pela experiência, caso das redes neurais [9].

Do ponto de vista funcional, o sistema especialista [43] é um sistema computacional que inclui o conhecimento de especialistas em algum domínio concreto, tornando-o hábil a tomar decisões no nível desses profissionais, dentro de uma estrutura desse domínio.

O núcleo de qualquer sistema especialista consta de: módulo de conhecimento (aquisitor), base de conhecimento, máquina de inferência e módulo de explicação. O surgimento de sistemas especialistas possibilitou o desenvolvimento de formalismos para a representação do conhecimento, que estão associados com: redes semânticas, *frames*, sistemas de produção (regras de produção) e cálculo de predicados [27].

Um conhecimento pode ser profundo ou superficial [6]. O conhecimento profundo está baseado em alguma teoria forte e geralmente aceita, como por exemplo, as leis de Kirchhoff. Ao contrário do conhecimento profundo, o conhecimento superficial pode ser baseado em fragmentos separados da experiência, regras empíricas, heurísticas, fatos que podem não ser sustentados pela teoria. Considerando isso, é necessário salientar que o conhecimento especialista é o conhecimento dos profissionais que acumularam suas experiências, habilidades adquiridas, considerações intuitivas. Este conhecimento é mais superficial.

Na literatura, é possível encontrar diversas motivações da racionalidade de implementação das técnicas de sistemas especialistas ou seus elementos, adicionando-os a rigorosos

modelos matemáticos e abordagens numéricas ou em certos casos, substituindo-os completamente em problemas de modelagem de processos.

Portanto, a tecnologia moderna necessita cada vez mais de soluções para problemas que não podem se formulados e resolvidos dentro de uma estrutura dos modelos matemáticos rigorosos, envolvendo geralmente problemas que têm sido abordados através da experiência humana, e precedentes que são expressos de forma vaga, ambígua e qualitativa.

1.2 – Justificativa da Pesquisa

O forte crescimento global associado ao avanço tecnológico das últimas décadas em todas as áreas de atividade humana gerou uma explosão no consumo por bens duráveis o que resultou em demanda expressiva por recursos minerais. Para atender esse aumento da demanda, as empresas de mineração tiveram que rever seus processos produtivos com foco no aumento da produtividade e redução de custo.

Este novo cenário passou a exigir máquinas mais robustas e de maior capacidade de produção para atender os processos contínuos e de alta velocidade. Estas máquinas por sua vez, passaram a exigir sistemas de controle mais sofisticados, rápidos e confiáveis.

Em boa parte dos processos, os modelos matemáticos tradicionais de controle tendo como base o clássico controlador PID [33] e [50], proporcionam as respostas desejadas e garantem um desempenho de excelência esperada. Porém, em processos industriais complexos, multivariáveis, não lineares, com parâmetros variantes no tempo e de dinâmica pouco conhecida e em geral de difícil obtenção, o controlador PID mostra-se ineficiente ou inadequado [29]. Para esses casos, a solução convencional exige um modelo matemático mais complexo. Entretanto, como mostra a experiência de [58], quando a complexidade do processo excede um determinado grau, os modelos matemáticos não apenas se tornam intratáveis como também sua precisão e confiabilidade relativas à realidade física se tornam questionáveis. Ao mesmo tempo, operadores humanos, treinados, podem trabalhar com processos industriais mal definidos e sistemas com dinâmica não conhecida tendo como base apenas o seu conhecimento, prática e intuição.

O objeto de estudo escolhido para este trabalho é o sistema de controle de perfuração e de rotação da perfuratriz rotativa de grande porte da Cia Vale do Rio Doce – CVRD. No entanto, é necessário ressaltar que os resultados da pesquisa têm caráter universal e podem ser utilizados na modelagem do sistema de controle de qualquer perfuratriz rotativa de grande porte no cenário da mineração.

O processo proposto se enquadra na classe de processos complexos determinado pelas seguintes características principais, segundo [46]:

- ✓ importância do equipamento no processo produtivo;
- ✓ exigência de trabalho dentro de limites operacionais especificados pelo fabricante;
- ✓ alta velocidade do processo;
- ✓ complexidade das variáveis envolvidas (processo não linear);
- ✓ necessidade de respostas rápidas diante de alterações de carga bruscas.

O sistema de controle atual da perfuratriz embora utilize sofisticada tecnologia, ainda não é capaz de se “adaptar” a todas as condições operacionais. Tal fato gera os seguintes problemas:

- ✓ baixa eficiência de perfuração em perfis heterogêneos de rochas devido à perda de sintonia dos controladores PID do sistema de perfuração automática do equipamento;
- ✓ desgaste prematuro das brocas devido à seleção manual da velocidade de rotação baseada no conhecimento do operador.

Em condições adversas os operadores são obrigados a passar o controle de perfuração para condição manual, devido à ineficiência do controlador PID. Essas situações demandam dos operadores decisões cada vez mais complexas, causando muita pressão psicológica sobre os mesmos. A experiência [48] mostra que alguns operadores, para evitar tensão excessiva no processo de controle, preferem mover o ponto de operação do sistema para um valor muito abaixo do limite resultando em perdas de produção. Já outros pouco experientes, na tentativa de serem produtivos, preferem mover o ponto de operação do sistema de controle

para além do limite permitido pelo fabricante o que resulta na maioria das vezes em danos ao equipamento (no caso estudado, tem-se o desgaste prematuro da broca). Dessa forma é necessário facilitar o trabalho dos operadores, liberando-os ao máximo das tensões psicológicas.

Numa primeira tentativa para solução do problema, utilizou-se técnicas de estatística com base em modelo de regressão linear multivariável para um melhor ajuste do controlador PID. O modelo proposto não se mostrou eficiente devido ao alto grau de não linearidade do processo, conforme será demonstrado no Capítulo 2 do presente trabalho.

Na abordagem estatística do processo abordagem estatística, ficou evidente que existia um problema sem solução pelos métodos matemáticos convencionais que merecia a tentativa de solução por um método alternativo.

Propõe-se, então, um modelo de sistema envolvendo controle fuzzy [46] e [47], que ao contrário da lógica usada nos controladores PID que geram respostas absolutas, a lógica fuzzy produz respostas de processamento relativas do tipo, vibração alta, corrente baixa, rotação normal, etc, permitindo decisões com valores estimados, bem próximos das decisões tomadas pelos operadores humanos. A saída de controle fuzzy é defuzificada gerando um valor final determinístico. Com esta nova tecnologia de modelagem é esperado que o sistema alternativo mantenha o processo na maioria das condições adversas sem a intervenção dos operadores humanos.

Nos controladores fuzzy, as relações entre as entradas e as saídas são modeladas com base na teoria dos conjuntos fuzzy associadas as variáveis lingüísticas que, devidamente manipuladas por regras de controle, visam solucionar os problemas de processos complexos ou indefinidos. Estes controladores têm a função de reduzir avarias mecânicas nos equipamentos principais, ou as perdas expressivas na produção, mantendo todo o processo produtivo em perfeito funcionamento [32].

Considerando-se o que foi exposto, é necessário indicar que até o presente momento não foram encontrados na literatura trabalhos que apresentassem uma solução para o problema estudado. Sendo o presente trabalho, portanto, uma proposta inicial no preenchimento da lacuna existente sobre a abordagem em questão.

1.3 – Objetivos

1.3.1 - Objetivo Geral

O objetivo geral do presente trabalho é aumentar a eficiência operacional da perfuratriz rotativa de grande porte através do desenvolvimento de um modelo de controle alternativo tendo como base as técnicas de identificação fuzzy e o controle fuzzy.

Pretende-se utilizar os resultados obtidos nesta pesquisa junto às instalações da Companhia Vale do Rio Doce, no sentido de atender a demanda produtiva com respectiva redução do custo de produção.

1.3.2 - Objetivos Específicos

O projeto abrange os seguintes principais objetivos específicos:

Analisar o grau de linearidade do processo de perfuração de rochas utilizando técnicas estatísticas de análise regressiva multivariável.

Construir modelo de controlador fuzzy para o controle da rotação de penetração (avanço) da haste.

Elaborar as estratégias de controle que permitem manter o processo estável e no ponto ótimo em todas as condições de operação sem interferência do operador humano.

Garantir a manutenção dos parâmetros operacionais dentro dos limites estipulados nas especificações do fabricante, diante de operações críticas ou perturbações bruscas, sem perda de produção.

Reduzir o nível de carga psicológica intensa e do trabalho rotineiro dos operadores de perfuratrizes podendo haver um melhor aproveitamento dos mesmos.

Reduzir o custo operacional da perfuratriz com a diminuição de gastos e aumento da produtividade a partir de uma maior eficiência do controle utilizando tecnologia fuzzy.

CAPÍTULO 2

MODELAGEM ESTATÍSTICA DO PROCESSO DA PERFURATRIZ

2.1 - Considerações Gerais

Neste capítulo trata-se a primeira abordagem dada ao problema em questão, em vista as características inerentes ao mesmo, apresentando-se como provável solução a construção de um modelo com base em técnicas estatísticas de regressão multivariável [45]. Sendo possível um modelo de boa representatividade, pretende-se maximizar a eficiência de operação dos controladores PID da perfuratriz.

Através da metodologia proposta por [10], o sistema atual da perfuratriz será tratado como um caso similar ao da situação geral mostrada na *Figura 2.1*, em que um certo número de fatores, $F_1, F_2, \dots, F_k$, atuando sobre o sistema em estudo, produz as respostas $R_1, R_2, \dots, R_j$.

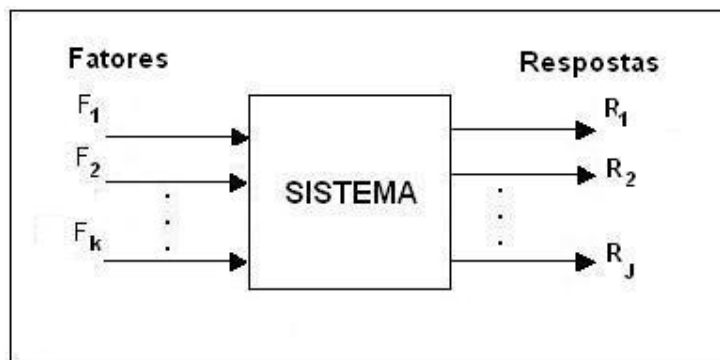


Figura 2.1 – Sistema generalizado multivariável

O objetivo é identificar uma função satisfatória que associe as variáveis de entrada (fatores) as variáveis de saída (respostas observadas), representando o comportamento do sistema em estudo (máquina perfuratriz).

A *Figura 2.2* esboça o processo em estudo baseada na abordagem descrita no parágrafo anterior:

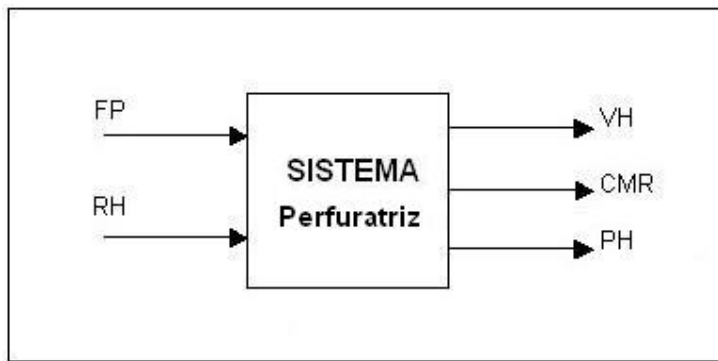


Figura 2.2 – Sistema multivariável para processo estudado

Abaixo, tem-se a descrição de cada variável envolvida no processo:

Fatores (variáveis controladas):

FP = Força de Penetração (avanço);

RH = Rotação da Haste.

Respostas (variáveis de controle):

VH = Vibração da Haste;

CMR = Corrente Motor de Rotação;

PH = Pressão Interna da Haste.

Nesse tipo de abordagem o que se tenta modelar é o processo (sistema) e o objetivo é encontrar conexões (relações) entre as variáveis envolvidas que possibilitem uma melhora (otimização) de desempenho dos controles existentes. A Figura 2.3 ilustra a metodologia em questão.

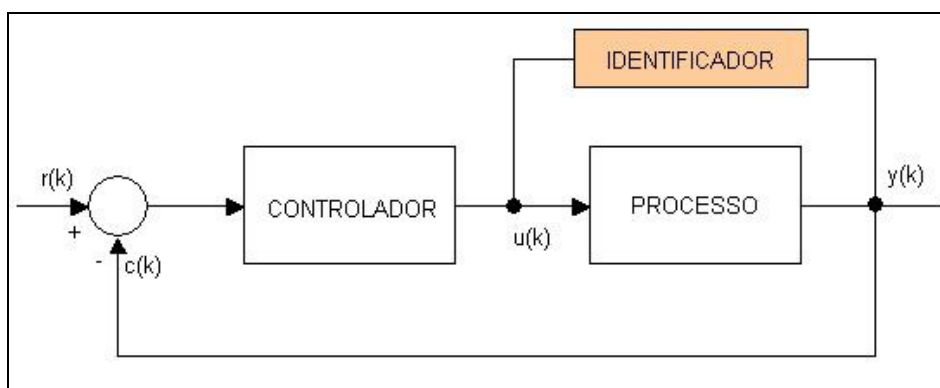


Figura 2.3 – Identificação do processo (sistema)

2.2 - Proposta de Modelo Baseado em Análise Estatística Regressiva

Nesta etapa de desenvolvimento do modelo em estudo, utilizou-se 7205 registros numéricos das variáveis (fatores e respostas) coletados durante a operação do equipamento operando em todas as situações possíveis no ambiente da mina da CVRD em Itabira MG. As amostras foram coletadas através de sensores apropriados e posteriormente convertidas em dados numéricos. O *Anexo 1* mostra dados do banco de dados que foram obtidos e servirão como fundamento informativo para todo o estudo da presente dissertação.

No processo estudado, as variáveis dependentes são postuladas em função de duas variáveis explicativas: x_1 e x_2 . Segundo [30] e [58], tem-se então o seguinte modelo de regressão linear:

$$y = \alpha + \beta_1 x_1 + \beta_2 x_2 + U \quad (2.1)$$

tendo-se uma amostra de n observações das variáveis y , x_1 e x_2 , pode-se a partir desses dados, determinar os valores de a , b_1 e b_2 dos parâmetros α , β_1 e β_2 e, dessa forma, obter a estimativa do modelo adotado, segundo o estimador $\hat{y}_i = a + b_1 x_1 + b_2 x_2 + U$.

Partindo-se do modelo de estimador proposto no parágrafo anterior e aplicando a ferramenta de estatística do *Excel* no banco de dados do *Anexo 1*, efetua-se o cálculo dos coeficientes do modelo (a , b_1 e b_2) para cada variável de resposta. Esses coeficientes são apresentados na *Tabela 2.1*.

Tabela 2.1 - Coeficientes dos modelos de regressão

Variáveis	Coeficientes		
	b_2	b_1	a
Vibração Haste -VH	-0,191	0,0051	19,28
Corrente Motor Rotação - CMR	-0,282	0,0281	57,12
Pressão Interna da Haste - PH	0,0742	0,0010	42,22

Chega-se então a seguinte proposta de modelo de regressão linear para cada variável de saída (resposta):

$$\begin{aligned} y_{VH} &= 19,28 + 0,0051x_1 - 0,191x_2; \\ y_{CMR} &= 57,12 + 0,0281x_1 - 0,282x_2; \\ y_{PH} &= 42,22 + 0,0010x_1 + 0,0742x_2 \end{aligned} \quad (2.2)$$

onde:

x_1 = Força de Penetração – *FP*;

x_2 = Rotação da Haste – *RH*.

A seguir é feita a análise dos coeficientes de covariância e correlação das variáveis do modelo. Esse procedimento apesar de considerado rústico é rotineiramente utilizado, pois, provê convincentes sumários numéricos da associação quando os dados não exibem de maneira óbvia os padrões não lineares de associação. O objetivo é tornar a tarefa de verificação de sua adequação menos trabalhosa.

A covariância entre duas variáveis aleatórias é definida, segundo [45], como sendo uma tendência de se desviarem de forma mais ou menos conjunta em relação às respectivas médias. Pode-se obter uma medida numérica dessa tendência a partir dos desvios $(x_{1j} - \bar{x}_1)$ e $(x_{2j} - \bar{x}_2)$, mais especificamente a partir de seus produtos para cada elemento da amostra. O valor numérico da covariância é por definição a média dos produtos desses desvios segundo a equação:

$$s_{ik} = \frac{1}{n} \sum_{j=1}^n \left((x_{1j} - \bar{x}_1) (x_{2j} - \bar{x}_2) \right) \quad (2.3)$$

onde:

(x_{1j}, x_{2j}) = Observações individuais;

$(\bar{x}_1, \bar{x}_2)$ = Médias amostrais;

n = Número de elementos da amostra.

O valor da covariância depende da escala usada para medir as variáveis, o que torna difícil comparar o grau de associação estatística existente em diferentes pares de variáveis

aleatórias. Para eliminar esse problema aplica-se um fator de escala, dividindo-se cada desvio individual pelo desvio padrão da variável correspondente. Obtém-se então uma espécie de covariância normalizada, que é chamada de coeficiente de correlação das duas variáveis. Como consequência da definição, o coeficiente de correlação fica restrito ao intervalo $[-1,1]$. As correlações de diferentes pares de variáveis ficam em uma escala adimensional podendo, portando, serem comparadas. A equação abaixo define numericamente o coeficiente de correlação:

$$r_{ik} = \frac{s_{ik}}{\sqrt{s_{ii}} \cdot \sqrt{s_{kk}}} = \frac{\sum_{j=1}^n (x_{ij} - \bar{x}_i) (x_{kj} - \bar{x}_k)}{\sqrt{\sum_{j=1}^n (x_{ij} - \bar{x}_i)^2} \sqrt{\sum_{j=1}^n (x_{kj} - \bar{x}_k)^2}} \quad (2.4)$$

para $i = 1, 2, \dots, p$, $k = 1, 2, \dots, p$. Notar que $r_{ik} = r_{ki} \quad \forall i \text{ e } k$.

De acordo com [30] e [45], se o coeficiente de correlação tender para 1 ou -1, existirá uma correlação forte na amostra e não haverá diferença significativa entre os valores y estimados pelo modelo e os valores y reais.

Considerando a teoria exposta, são apresentadas a seguir as *Tabelas 2.2 e 2.3* que contem, respectivamente, os valores da covariância e o fator de correlação das variáveis do sistema em estudo. Essas tabelas foram geradas com auxílio da ferramenta de estatística do software *Excel*.

Tabela 2.2 – Covariância

Variáveis	FP	RH	VH	CMR	PH
FP	24,52				
RH	6,56	71,77			
VH	-2,66	-1,06	5,77		
CMR	81,78	572,68	33,98	21938,76	
PH	-15,97	-20,39	6,67	155,51	87,73

Tabela 2.3 - Fator de correlação

Variáveis	FP	RH	VH	CMR	PH
FP	1				
RH	0,16	1			
VH	-0,22	-0,05	1		
CMR	0,11	0,46	0,10	1	
PH	-0,34	-0,26	0,30	0,11	1

A partir dos resultados registrados nas Tabelas 2.2 e 2.3, conclui-se que as variáveis do modelo proposto usando as técnicas da análise regressiva têm pouca interação, ou seja, o nível de influência das variáveis de entrada tem pouca interferência nas variáveis de saída. A seguir será feita a análise de validade do modelo idealizado.

2.3 - Verificação da Adequação do Modelo

Nos trabalhos [30] e [31] são propostos os seguintes indicadores para análise e verificação da significância dos coeficientes e qualidade do modelo proposto:

- ✓ Testes de Hipótese (critério de Fisher e critério de Student);
- ✓ Coeficiente de Explicação.

Testes de Hipótese

Lembrando que o modelo proposto é do tipo $y = \alpha + \beta_1 x_1 + \beta_2 x_2 + U$, o procedimento dos testes de Hipótese põe a prova as seguintes hipóteses:

$$H_0 : \beta_1 = \beta_2 = 0;$$

$$H_1 : \beta_1 \neq 0 \text{ e/ou } \beta_2 \neq 0.$$

Enquanto o critério de Student é utilizado para realizar testes de hipóteses dos coeficientes do modelo de regressão o critério de Fisher é utilizado para realizar testes de hipóteses das equações das retas do modelo de regressão. Em ambos os testes, é definido um nível de significância α (geralmente para aplicações técnicas [30] é usado $\alpha = 0,05$) e em seguida, defini-se a variável de teste.

Na distribuição de Student, a variável de teste t_0 é calculada a partir dos elementos da amostra: $t_0 = b/S_b$, onde b é o coeficiente do modelo e S_b é o seu erro padrão. A variável t_0 é então comparada ao t crítico “ t_c ” obtido a partir da tabela de distribuição de Student [31] tendo como base o nível de significância α e o grau de liberdade $gl = n - 2$ (sendo n o tamanho da amostra). Se $|t| > t_c$, rejeita-se a hipótese H_0 e conclui-se que existe a regressão.

Na distribuição de Ficher, a variável de teste F_0 com k graus de liberdade do numerador e n graus de liberdade no denominador é dada por:

$$F_o = \frac{\frac{r^2}{k-1}}{\frac{1-r^2}{n-k}} \quad (2.5)$$

onde r^2 é definido como coeficiente de Explicação [30] e [58]. A variável F_0 é então comparada ao F crítico “ F_c ” obtido a partir da tabela de distribuição F tendo como base o nível de significância α , $gl = k - 1$ graus de liberdade do numerador e $gl = n - 3$ do denominador (sendo k o número de variáveis independentes do modelo e n o tamanho da amostra). Se $F_0 > F_c$, rejeita-se H_0 e conclui-se que existe a regressão.

Coeficiente de Explicação

Além dos testes de Hipótese, outro indicador que fornece elementos para análise do modelo proposto é o coeficiente de Determinação ou de Explicação, definido por:

$$r^2 = \frac{\sum_{i=1}^n (\hat{y}_i - \bar{y})^2}{\sum_{i=1}^n (y_i - \bar{y})^2} \quad (2.6)$$

onde:

$$\sum_{i=1}^n (\hat{y}_i - \bar{y})^2 \text{ é definido como variação explicada da regressão;}$$

$\sum_{i=1}^n (y_i - \bar{y})^2$ é definido como variação total da regressão.

O coeficiente de Explicação indica quantos por cento a variação explicada pela regressão linear representa da variação total. Deve-se ter: $0 \leq r^2 \leq 1$.

No caso em que $r^2 = 1$, todos os pontos observados se situam exatamente sobre a reta de regressão. Diz-se que o ajuste é perfeito. As variações de y são 100% explicadas pelas variações de x através da função especificada, não havendo desvios em torno da função estimada.

Por outro lado, se $r^2 = 0$, concluir-se-á que as variações de y são exatamente aleatórias, e a introdução da variável x no modelo não incorporará informação alguma sobre as variações de y .

De acordo com a teoria exposta e utilizando-se da ferramenta de análise estatística do *Excel*, chega-se ao quadro resumo dos testes propostos por [30] e [31] e aplicados sobre as equações do modelo proposto considerando o Banco de dados do *Anexo 1*:

Tabela 2.4 – Análise do modelo estatístico proposto

Estatística de Regressão - Quadro Resumo									
Equações do Modelo Proposto	$y_{PH} = 42,22 + 0,0010 x_1 + 0,0742 x_2$			$y_{CMR} = 57,12 + 0,0281x_1 - 0,282x_2$			$y_{VH} = 19,28 + 0,0051x_1 - 0,191x_2$		
	α_0	x_1	x_2	α_0	x_1	x_2	α_0	x_1	x_2
Observações	7205			7205			7205		
Nível de significância	5%			5%			5%		
Graus de liberdade	2			2			2		
Ficher observado	364			1576			593		
Ficher crítico (tabelado)	3			3			3		
Student observado	151,69	5,58	25,59	66,49	49,69	-31,55	34,55	13,83	-32,89
Student crítico (tabelado)	1,96			1,96			1,96		
Coefficiente de Explicação	9,15%			30,43%			14,12%		

Analisando os resultados obtidos na *Tabela 2.4* tendo como referencia os indicadores para análise de modelos propostos por [30] e [31], conclui-se que as equações de regressão são possíveis (testes de Student e Ficher), porém seus respectivos coeficientes de explicação são de pouca representatividade. Isso nos leva concluir que o processo estudado apresenta

características de não linearidade tendo sua representação possível apenas por modelos matemáticos de maior complexidade (modelos de equações não lineares).

Portanto, o modelo estatístico de regressão linear multivariável obtido, não pode ser considerado como uma boa solução para o problema da perfuratriz. Um método alternativo utilizando procedimentos fuzzy será apresentado nos capítulos seguintes.

CAPÍTULO 3

ANÁLISE DA BIBLIOGRAFIA

3.1 - Controladores PID Convencionais

A maior parte dos controladores industriais são do tipo Proporcional-Integral-Derivativo (PID), implementados basicamente usando Controladores Lógicos Programáveis (CLPs). A flexibilidade, o baixo custo e a robustez dos CLPs e a disponibilidade de blocos funcionais de hardware, transformaram o PID na estratégia de controle mais popular e com maior número de implementações industriais aceitas pela comunidade científica e industrial [29].

Na opinião dos autores de [13], o controle industrial envolve, na maioria das vezes, a escolha de variáveis de projeto que asseguram o comportamento transiente desejado do sistema. Neste contexto é de interesse saber que desvio máximo de controle pode ser esperado com um distúrbio e como é esperado que o controle do processo se comporta no tempo. A saída desejada é definida como a melhor que pode ser obtida, onde a palavra “melhor” pode ter várias conotações que denotam mínimo overshoot, tempo mínimo de ajuste e tendência mínima para oscilações persistentes.

O controlador convencional PID é baseado em um modelo matemático rigoroso de algum processo linear. Estes modelos usam um conjunto de equações que descrevem estado de equilíbrio estável da superfície de controle através de coeficientes atribuídos aos aspectos proporcionais, integrais, e derivativos do sistema. A Figura 3.1 ilustra uma malha de controle na qual um controlador convencional é utilizado lendo o valor de um sensor e produzindo uma saída com base em seu algoritmo matemático [19].

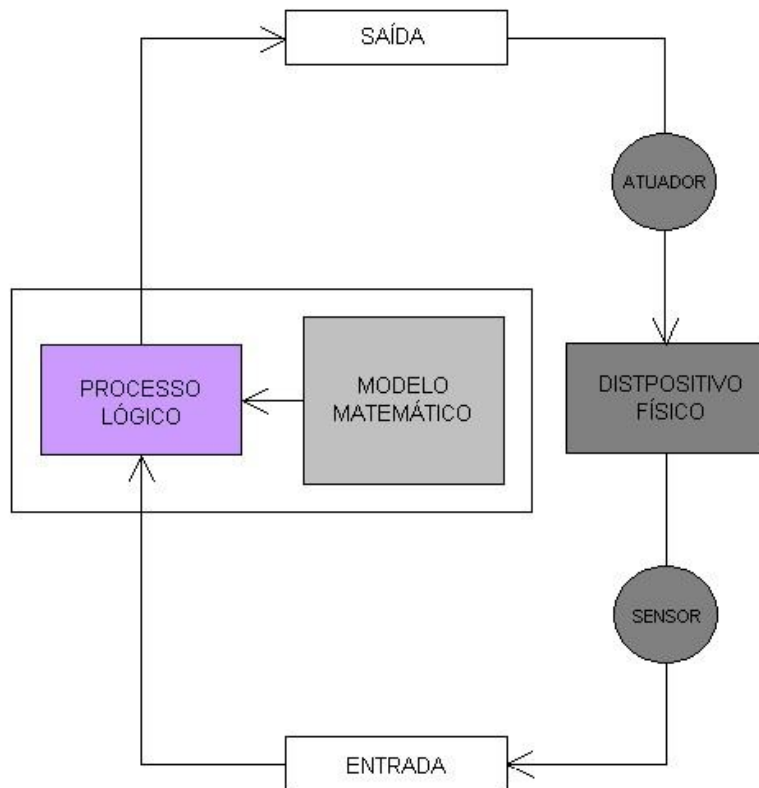


Figura 3.1 – Processo modelado por PID

De acordo com [29], controladores PID trabalham bem se o processo é razoavelmente linear, de forma que uma mudança na entrada do processo gera uma mudança proporcional na saída do processo. Se a relação de entrada e saída do processo for levemente não linear, ajustes periódicos dos parâmetros do controlador são necessários. No caso de processos altamente não-lineares, ou quando são usados na malha de realimentação elementos de controle ou atuadores substancialmente não-lineares, ou quando a modelagem matemática do processo encontra dificuldades devido ao conhecimento insuficiente ou complexidade do processo em geral, controladores PID têm um desempenho pobre. Portanto, outras técnicas devem ser utilizadas como solução a essas situações.

O modelo de PID pode parecer mais simples e talvez, mais econômico, mas não se deve assumir facilmente esta suposição. Os controladores da lógica fuzzy [11] são mais fáceis de serem desenvolvidos e implementados. Geralmente, têm a performance igual a dos controladores PID convencionais. Além disso, são mais simples para descreverem o processo, podem manter um alto grau de exatidão com menor tempo, e, devido a sua

confiabilidade nas regras e no conhecimento, dão a suas aplicações o que Lotfi Zadeh chama de quociente de inteligência mais elevado da máquina [19].

No entanto, a utilização de controle alternativo não pode ser vista como uma “panacéia universal” sendo incorreta a atitude de substituição dos controladores PID em áreas onde eles trabalham bem. A sugestão dos métodos alternativos deve se analisada para processos nos quais os métodos convencionais usando PID falham [23] e [29].

3.2 - Tecnologia Fuzzy

Novas tecnologias são desenvolvidas devido à necessidade de aplicações específicas. O advento da lógica fuzzy foi causado pela necessidade de um método capaz de expressar de uma maneira sistemática quantidades imprecisas, vagas, mal definidas [36].

Os controladores industriais baseados em lógica fuzzy podem ser projetados a partir do conhecimento experimental de operadores humanos treinados, fazendo com que a ação de controle seja tão boa quanto a deles (em geral melhor) e sempre consistente [49]. A seguir, têm-se algumas considerações gerais dessa nova tecnologia.

3.2.1 – Histórico

Os fundamentos da teoria dos conjuntos fuzzy surgiram em 1965 com uma publicação [35]. Professor da Universidade da Califórnia, Berkeley, considerado um grande colaborador do controle moderno, L. Zadeh criou uma teoria de conjuntos em que não há descontinuidades, ou seja, não há uma distinção abrupta entre elementos pertencentes e não pertencentes a um conjunto, os são os Conjuntos Fuzzy (Fuzzy Sets). Começava aí a se desenvolver a Teoria Fuzzy, para tratar de variáveis "imprecisas", ou definidas de forma "vaga". L. Zadeh percebeu que a modelagem de muitas atividades relacionadas a problemas industriais, biológicos ou químicos seria complexa demais se implementada da forma convencional. Os sistemas fuzzy foram utilizados, com sucesso, em algumas aplicações que se tornaram exemplos clássicos.

Em [35], L. Zadeh não só desafiou a teoria da probabilidade, mas também as fundamentações nas quais a teoria da probabilidade é baseada: a lógica Aristoteliana dos

dois valores em que um evento, ou é verdadeiro ou é falso. L. Zadeh afirma que “quando A é um conjunto fuzzy e x é elemento pertinente, a proposição x é associada com um valor de grau de pertinência em A ” e não é, necessariamente, verdadeiro ou falso, conforme a lógica dos dois valores, mas pode ser até um certo ponto verdade, o grau para o qual x é de fato um elemento de A . É muito comum, porém não necessário, expressar graus para os elementos dos conjuntos fuzzy como também graus de verdade para as proposições associadas por números num intervalo fechado $[0, 1]$. Os valores extremos neste intervalo, 0 e 1, representam, respectivamente, a negação e a afirmação total da associação em um determinado conjunto fuzzy, como também a falsidade e a verdade da proposição associada. A capacidade dos conjuntos fuzzy para expressar transições graduais de associação de elementos, e vice versa, é de grande utilidade. Não só proporciona uma representação poderosa de medidas de incerteza, mas também como uma representação significativa de conceitos vagos expressados em linguagem natural.

Em 1974 o professor E.H. Mamdani, do Queen Mary College, da Universidade de Londres, implementou um controle de uma máquina a vapor, baseado em lógica fuzzy [42]. Até então, não se tinha conseguido automatizar essas máquinas com outras técnicas de controle, nem mesmo com algoritmo PID. Esse sucesso serviu de alavanca para outras aplicações, por exemplo [3] e [17].

Apesar de os estudos teóricos terem se desenvolvido na Europa e nos Estados Unidos, as aplicações nunca tiveram lá a mesma ênfase que tiveram no oriente, principalmente no Japão, que investiu muito no desenvolvimento de tecnologias baseadas na Teoria Fuzzy.

Hoje, empresas como Boeing, General Motors, Allen-Bradley, Chrysler, Eaton e Whirlpool têm procurado soluções diversas na Teoria Fuzzy. Controle de refrigeradores de baixa potência, transmissão automotiva e motores elétricos de alta eficácia fazem parte de suas linhas de pesquisa [51].

Nos Estados Unidos, a Agência de Proteção Ambiental estuda o uso de controle Fuzzy em motores. A NASA tem estudado a aplicação da Teoria Fuzzy na ancoragem automática de suas naves no espaço. Simulações mostram que um Sistema Fuzzy pode reduzir significativamente o consumo em motores a combustão [7].

Os resultados das pesquisas, por exemplo [36] e [42] permitem afirmar que técnicas de controle baseadas em lógica fuzzy devem ser consideradas como uma das mais importantes aplicações da teoria dos conjuntos fuzzy.

3.2.2 – Princípios Básicos de Lógica Fuzzy

A lógica clássica fez do atributo da bivalência um marco histórico em na cultura ocidental. Espera-se sempre que uma determinada afirmação seja verdadeira ou falsa. Não há nada entre ambas, o meio é excluído. Porém, o mundo real não é multivalente com um infinito espectro de opções em vez de duas. Em termos técnicos, o mundo real é analógico e não digital, com muitos tons de cinza entre o branco e o preto. Verdade absoluta e precisão existem apenas como casos extremos. Assim o objetivo da lógica fuzzy é de capturar esses tons de cinza e graus de verdade presentes no mundo real. A lógica fuzzy é multivalente, isto é, reconhece uma multitude de valores, assegurando que a verdade é uma questão de ponto de vista ou de graduação, definindo o grau de veracidade em um intervalo numérico $[0,1]$ [55] e [56].

O trabalho [4] define a lógica fuzzy como uma forma de gerenciamento de incertezas, através da expressão de termos com um grau de certeza situado num intervalo numérico $[0,1]$, onde a certeza absoluta é representada pelo valor 1.

Por outro lado, os computadores podem apenas “raciocinar” de forma bivalente 0 e 1. Os computadores não conseguem entender os termos fuzzy da comunicação humana. A lógica fuzzy pode sistematicamente traduzir os termos fuzzy da comunicação humana em valores compreensíveis para os computadores.

3.2.3 - Variáveis Lingüísticas

O conceito de variáveis lingüísticas foi introduzido por L. Zadeh no trabalho [34] no qual definiu variável lingüística como sendo aquela variável cujos valores são números fuzzy também chamados de valores fuzzy ou valores lingüísticos. Elas podem assumir valores que consistem de palavras ou sentenças em linguagem [56].

Os modelos Fuzzy manipulam variáveis lingüísticas. Uma variável lingüística é a reapresentação de um espaço fuzzy. Este espaço fuzzy é, essencialmente, um conjunto fuzzy derivado da avaliação da variável lingüística [19].

Todo valor da variável lingüística de um objeto pode ser considerado como um conjunto fuzzy no conjunto de todos os reais valores do objeto. Assim, todo real valor do objeto pertence a um valor da variável lingüística com um certo grau [3].

A obra de [24], afirma que em Lógica fuzzy a principal preocupação é com a quantificação e raciocínio sobre os termos vagos ou imprecisos da nossa linguagem natural. Estes termos são referidos como variáveis lingüísticas também chamadas de variáveis fuzzy. As variáveis lingüísticas servem para definir e compreender as situações do problema. São utilizados termos fundamentais que podem ser adjetivos ou advérbios como: muito, pouco, mais ou menos, fraco, forte, etc.

Em sistemas baseados em lógica fuzzy, variáveis lingüísticas são usadas em regras fuzzy. Uma regra fuzzy deduz informação sobre uma variável lingüística contida em sua conclusão, da informação de outra variável contida em sua premissa [55].

Por exemplo:

Regra 1

SE pressão é baixa

ENTÃO faça a rotação alta

Regra 2

SE corrente do motor é baixa

E pressão é média

ENTÃO faça a rotação média

Uma vez que as regras do tipo (1) e do tipo (2) apresentadas acima refletem estratégias gerais de controle, cada uma delas é apresentada por um conjunto de regras concretas definidas por valores fuzzy de variáveis lingüísticas [36]. No caso do controle da perfuratriz, fala-se sobre as seguintes variáveis lingüísticas: *vibração da haste*, *corrente*

motor de rotação e pressão interna da haste como sendo as variáveis de entrada e força de penetração e rotação da haste como as variáveis de saída. Como exemplo, na Figura 3.2, é ilustrada a noção dos valores fuzzy da variável lingüística vibração da haste de acordo com [28] e [36].

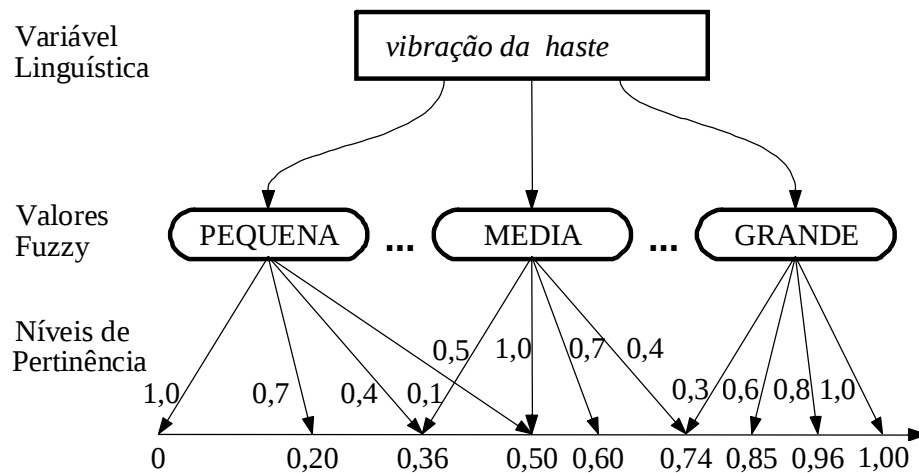


Figura 3.2 – Valores lingüísticos

O primeiro passo para a construção da descrição lingüística está associado com a determinação dos intervalos de definição das variáveis de base das variáveis lingüísticas [28] e [36].

É chamado de range os possíveis valores que uma variável lingüística pode assumir no universo de discurso. Por exemplo, pode-se dar à variável pressão usada na regra 1 um range de 0 a 100 psi. A frase *rotação é baixa* ocupa uma seção das variáveis no universo de discurso.

O próximo item irá tratar do controlador que tem o seu princípio de funcionamento baseado em todos os conceitos e definições da tecnologia fuzzy apresentados até agora.

3.3 - Controladores Lógicos Fuzzy

Os controladores lógicos fuzzy são definidos como controladores baseados em experiência, que fazem uso do conhecimento do processo, expresso em regras fuzzy. A idéia básica por detrás de um controlador fuzzy é incorporar a experiência do operador humano de processo no projeto do controlador. A partir de um conjunto de regras lingüísticas que descrevem as estratégias operacionais de controle, um algoritmo é construído onde as palavras são definidas como conjuntos fuzzy. As vantagens principais desta aproximação parecem ser a possibilidade de implementar regras da experiência, da intuição, da heurística e do fato de que não é necessário um modelo do processo [42].

O autor de [28], considera controladores da lógica fuzzy como sistemas DDC (Controle Digital Direto) especiais que usam regras para modelar o conhecimento do processo de um modo explícito. Em vez de projetar algoritmos que explicitamente definem a ação de controle como uma função das variáveis de entrada do controlador, o projetista de um controlador fuzzy escreve regras que vinculam as variáveis de entrada com as variáveis de controle, por relações de variáveis lingüísticas.

O primeiro problema para especificar os parâmetros do controlador lógico fuzzy é decidir a linguagem fuzzy. Isto envolve especificação explícita do universo da variável básica, o conjunto de condições da variável lingüística e o mapa fuzzy que relaciona os dois. O termo conjunto normalmente é um compromisso entre flexibilidade (muitas condições) e simplicidade (algumas condições) [37].

Um controlador fuzzy é, essencialmente, um controlador preditivo, que imita o raciocínio humano para manter o processo, baseado em um conjunto de regras geradas por meio de heurísticas.

Controle fuzzy faz referência primeiramente a controle de processos através de descrições lingüísticas, usando as regras *if / then* [28]. Conforme descrito anteriormente, a base dos controladores fuzzy é o fato das descrições lingüísticas prescreverem as ações apropriadas para um dado estado [28] e [36]. As descrições lingüísticas envolvem associações com variáveis lingüísticas e procedimentos de inferência.

3.3.1 - Estrutura de um Controlador Fuzzy

A transformação de todos os conceitos vistos até agora, em um mecanismo de aplicação prática foi o desafio a que se propuseram diversos pesquisadores, dentre eles o E.H. Mamdani, que projetou um modelo, denominado originariamente *Fuzzy Logic Controller*, e que inspirou muitos trabalhos em diversas obras literárias a respeito do tema [29] e [36].

A Figura 3.3 apresenta um modelo conceitual de como opera o Controlador de Lógica Fuzzy:

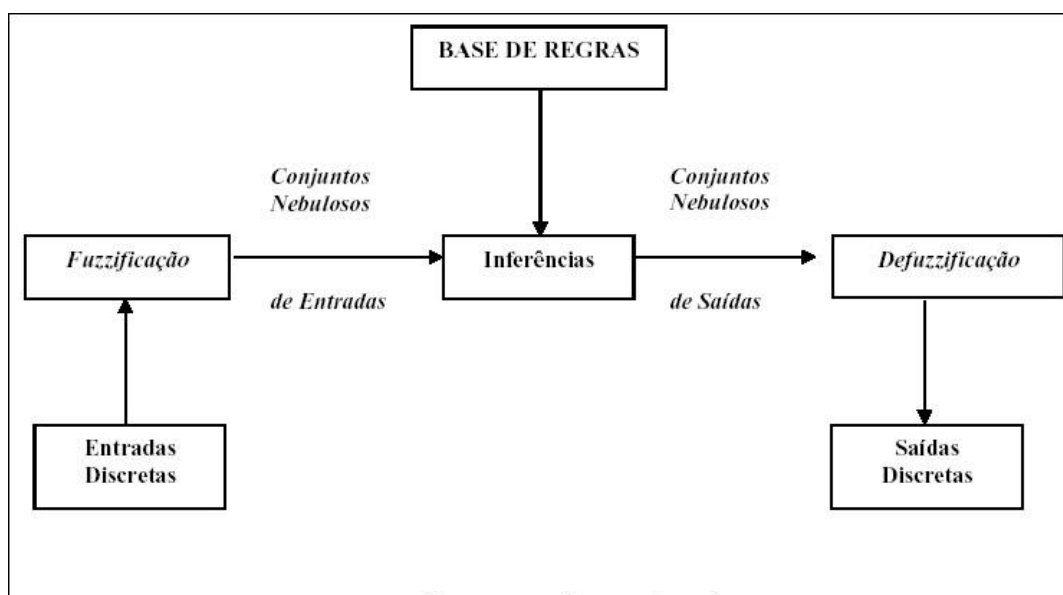


Figura 3.3 - Estrutura do controlador de lógica fuzzy

Nota-se que o mecanismo primordial desse modelo consiste em “fuzzificar”, ou seja, introduzir ao universo fuzzy, as variáveis discretas, representadas por escalas numéricas, processá-las com base em regras estabelecidas com o auxílio de informações de especialistas e, em seguida, “defuzzificar”, o que significa resgatá-las no formato de saídas discretas, ou seja, em números representativos para um processo de tomada de decisão. As Entradas Discretas são as variáveis lingüísticas, atreladas a algum tipo de escala numérica (por exemplo, uma corrente de 150 A).

Existem vários tipos de controladores fuzzy, sendo o controlador Mamdani o mais utilizado [19], [26], [28], [29], [46] e [56].

O controlador fuzzy tipo Mamdani emprega um método de inferência no qual os conjuntos fuzzy do *conseqüente* de cada regra são combinados através de operadores de agregação. Já o conjunto fuzzy resultante é “defuzzyficado” para levar à saída crisp do problema. A característica principal do controlador Mamdani é descrever o estado de processos através de variáveis lingüísticas. Essas variáveis são utilizadas como entradas das regras de controle. As variáveis lingüísticas, juntamente com as regras, constituem a principal etapa do projeto de um controlador Mamdani [28]. A cada variável lingüística corresponde uma série de conjuntos fuzzy denominados “termos lingüísticos” que descrevem os diversos estados das variáveis lingüísticas e que possuem formas variadas. As formas mais populares são trapezoidais e triangulares [3]. A essência do método pode ser descrita em três estágios:

- ✓ Determinação do grau de pertinência $\mu(u)$ da entrada na regra *antecedente*;
- ✓ Construção das regras *conseqüentes*;
- ✓ Agregação das regras *conseqüentes* no conjunto fuzzy, “ação de controle”.

O método Mamdani leva em conta todas as regras em um único estágio. Nele, não ocorrem encadeamentos, o que leva o processo de inferência em controle fuzzy a ser mais simples que vários sistemas especialistas. Na literatura é possível encontrar muitas modificações do controlador original Mamdani.

Será feito um estudo mais aprofundado sobre o controlador Mamdani pelo fato deste ser o tipo de controlador utilizado no controle das variáveis do processo modelado neste trabalho.

Os elementos funcionais do controlador lógico fuzzy mostrado na *Figura 3.3* são explicados a seguir:

Fuzzyficação

Segundo [28], a fuzzyficação é um mapeamento do domínio de números reais (em geral discretos) para o domínio fuzzy. Fuzzyficação também representa que há atribuição de valores lingüísticos, descrições vagas ou qualitativas, definidas por funções de pertinência as variáveis de entrada. A fuzzyficação é uma espécie de pré-processamento de categorias

ou classes dos sinais de entrada, reduzindo grandemente o número de valores a serem processados.

A Figura 3.4 mostra um exemplo de fuzzyficação de uma variável de entrada qualquer.

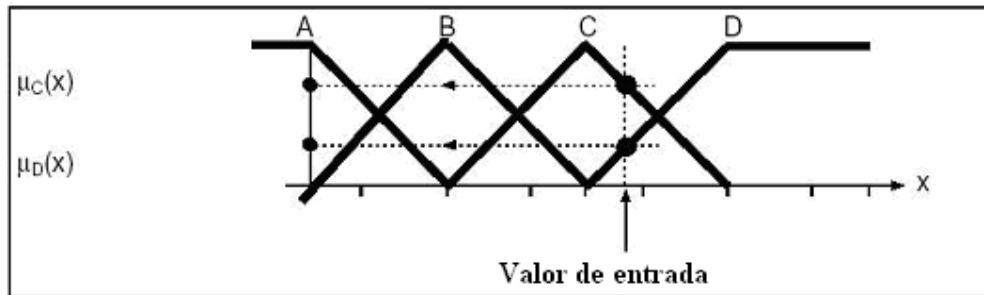


Figura 3.4 – Princípio da fuzzyficação

Base de Regras e Inferência Fuzzy

Uma vez obtidas as entradas fuzzy, o modelo deverá realizar as inferências necessárias para gerar as saídas dos conjuntos fuzzy. Esse processo de inferência consiste na aplicação das Regras de Controle, também conhecidas como Regras de Produção, sobre as entradas fuzzy e sua conseqüente avaliação e informação dos resultados inferidos, ainda sob a forma de conjuntos fuzzy [37]. Nesse momento, normalmente, são consultados especialistas na matéria sob a qual o controlador fuzzy vai operar, para definição das regras. Essas são de natureza condicional ou incondicional. Para as regras de natureza condicional, o formato utilizado para expressá-las utiliza a sintaxe: **SE** (premissa), **ENTÃO** (conclusão). Por exemplo: **SE** a temperatura é alta **ENTÃO** acione o sistema de ventilação [23].

Para as regras de natureza incondicional, não é utilizada a segunda parte condicionante, ou seja, o termo **ENTÃO**. Assim, a expressão simplesmente realiza uma asserção. No exemplo dado, a regra incondicional seria, assim, expressa: A temperatura é alta.

As regras podem conter mais de uma condicionante. Tomando como referência o tema desse trabalho, poder-se-ia exemplificar essa condição como segue:

SE a corrente do motor é alta
E a pressão interna da haste é média

ENTÃO a rotação é média.

As premissas da regra são denominadas *Antecedentes* e a ação estabelecida é chamada de *Conseqüente*. As premissas são relacionadas pelos conectivos lógicos, os operadores fuzzy conhecidos como **min** (operador de agregação **E**) ou **max** (operador combinação **OU**). O primeiro está associado à operação de *Intersecção* dos conjuntos fuzzy e o segundo a operação de *União* desses conjuntos.

Os procedimentos de inferência consistem na avaliação das variáveis antecedentes pelas regras estabelecidas.

Um controlador fuzzy contém muitas destas inferências fuzzy, e todas são ativadas em paralelo, ou seja, ao mesmo tempo. Assim, um controlador fuzzy “raciocina” com inferência associativa paralela. Quando uma entrada é fornecida, um controlador fuzzy dispara cada regra em paralelo com graus diferentes, dependendo de um peso chamado grau de suporte, que é um número no intervalo $[0,1]$ associado a cada regra, para inferir um resultado ou saída. Essa operação paralela é o que garante aos controladores fuzzy sua alta velocidade de processamento [52].

Para tanto, as seguintes etapas devem ser realizadas pelo Controlador de Lógica fuzzy:

- ✓ Identificar os valores correspondentes aos graus de pertinência dos termos lingüísticos correspondentes às antecedentes;
- ✓ Determinar a força das conclusões de cada regra disparada;
- ✓ Definir a saída fuzzy.

Um especialista humano, entrevistado para ajudar a formular o conjunto de regras fuzzy, pode articular associações de entrada/saída lingüísticas [38] e [42]. Dessa forma, sistemas fuzzy podem produzir estimativas de um sistema não linear complexo sem recorrer a modelos matemáticos. Assim, a metodologia fuzzy é um método de estimação de entrada e saída livre de modelos matemáticos.

Defuzzyficação

A etapa de inferência fornece como resultado um conjunto Fuzzy ou uma função de pertinência. Um elemento de controle (por exemplo, um atuador) não pode processar diretamente esta informação fuzzy, conseqüentemente, o resultado da etapa de inferência tem que ser convertido em valores numéricos *crisp*. Neste contexto, o número *crisp* a ser determinado (geralmente um número real) deve fornecer uma boa representação da informação contida no conjunto Fuzzy. Assim, a defuzzyficação é uma transformação inversa que traduz a saída do domínio fuzzy para o domínio discreto [5], [15], [28], [29], [36] e [56].

Para selecionar o método apropriado de defuzzyficação, pode-se utilizar um enfoque baseado no centróide ou nos valores máximos que ocorrem da função de pertinência resultante [5], [15], [23], [29] e [36]. Os métodos mais utilizados são:

- Centro de Área

De acordo com [5], [15], [19], [23], [29] e [36] é o método de defuzzyficação mais utilizado (CA). É freqüentemente chamado de método do centro-de-gravidade e escolhe a ação de controle que corresponde ao centro da área com pertinência maior que zero. Nesse método se calcula o centróide da área composta que representa o termo de saída fuzzy $\mu_{B'}(u_i)$, toma a abscissa da coordenada do centróide. Esse termo de saída fuzzy é composto pela união de todas as contribuições das regras. O centróide é um ponto que divide a área de $\mu_{B'}(u_i)$ em duas partes iguais. O cálculo da área do centróide da figura resultante do processo de inferência se dá da seguinte forma:

$$u^* = \frac{\sum_{i=1}^n u_i \mu_{B'}(u_i)}{\sum_{i=1}^n \mu_{B'}(u_i)}, \quad (3.1)$$

onde:

u_i = abscissa (discretização) no ponto i ,

$\mu_{B'}(u_i)$ = função de pertinência da saída da inferência para os valores de u_i .

Caracterizando o método do centro de área, os autores de [36] indicam, que as desvantagens potenciais dele estão associadas com o favorecimento de valores “centrais” da variável de base, e devido a sua relativa complexidade, possibilita uma inferência lenta. Ao mesmo tempo, o método toma o centro de gravidade da distribuição fuzzy e produz um resultado que é sensível a todas as regras participantes da inferência.

- Centro dos Máximos

Usando o método de Centro dos Máximos (CM), os picos das funções de pertinência representadas nos universo de discurso da variável de saída são usados, enquanto ignora-se as áreas das funções de pertinência; as contribuições múltiplas de regras são consideradas por este método. Assumindo que esses picos representam pesos, os valores de saída defuzzyficado (discreto) são determinados achando-se o ponto de apoio no qual os pesos ficam equilibrados [29] e [36]. Assim as áreas das funções de pertinência não desempenham nenhum papel e apenas os máximos são usados. De acordo com [19] e [29], a saída discreta é calculada como uma média ponderada nos máximos, cujos pesos são os resultados da inferência. O cálculo do valor realizado é obtido através da seguinte correlação:

$$u^* = \frac{\sum_{i=1}^N u_i \sum_{k=1}^n \mu_{o,k}(u_i)}{\sum_{i=1}^N \sum_{k=1}^n \mu_{o,k}(u_i)} \quad (3.2)$$

onde:

$\mu_{o,k}(u_i)$ = a função de pertinência máxima (no ponto u_i do universo de discurso) resultante da contribuição da k ésima regra [29].

Esse método resolve o problema apresentado pelo método CA, porém, traz alguma dificuldade na escolha dos máximos que devem ser considerados para os cálculos. No entanto, devido à facilidade de implementação computacional e à necessidade de resposta rápida nas variáveis de saída, será o método utilizado no modelo fuzzy proposto para solução do problema da perfuratriz.

3.3.2 – Possibilidades de Aplicações Usando Controladores Lógicos Fuzzy

Os exemplos abaixo mostram de forma geral as principais possibilidades de se empregar o controlador lógico fuzzy no controle de processos industriais [7], [13] e [40]:

- Pré-controle

Nesse caso o controle fuzzy complementa o controlador convencional PID através da introdução de um sinal corretivo na malha de controle evitando/reduzindo o sobre-sinal comumente gerado na saída do controlador PID. Essa abordagem se baseia no uso de equações relacionais fuzzy a partir de medições dos sinais de entrada e saída para a construção das relações fuzzy. O objetivo é eliminar a necessidade do operador humano treinado na obtenção do *know how* do processo modelado.

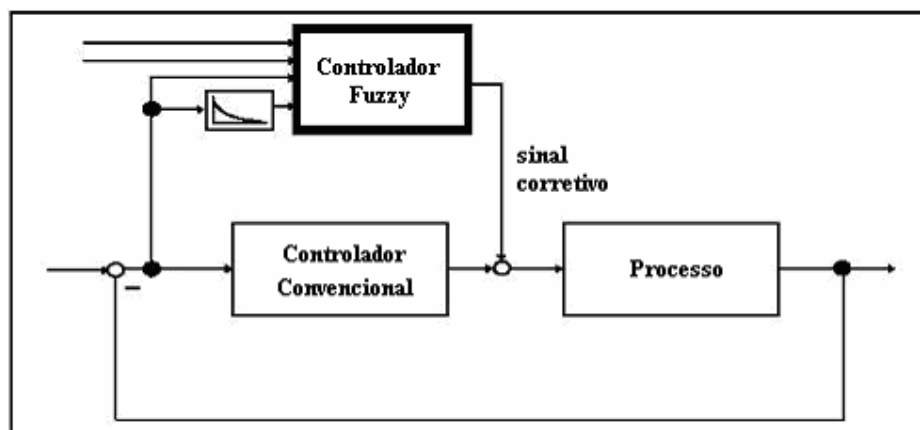


Figura 3.5 – Exemplo de pré-controle

- Adaptação de Parâmetros

Nessa aplicação o controle fuzzy é usado para adaptar os parâmetros de controle do controlador convencional PID. É tipicamente utilizado como sistema supervisório computadorizado que ajusta os pontos de operação do PID com base em um roteiro de atividades correlacionadas com a saída. O princípio dessa abordagem é combinar uma descrição global baseada em regras com aproximações lineares locais por meio de um modelo de regressão linear correspondente a um modelo linear de entrada e saída que se usaria para descrever o sistema localmente. De forma resumida, é uma abordagem híbrida que combina o método fuzzy baseado em regras e o método matemático.

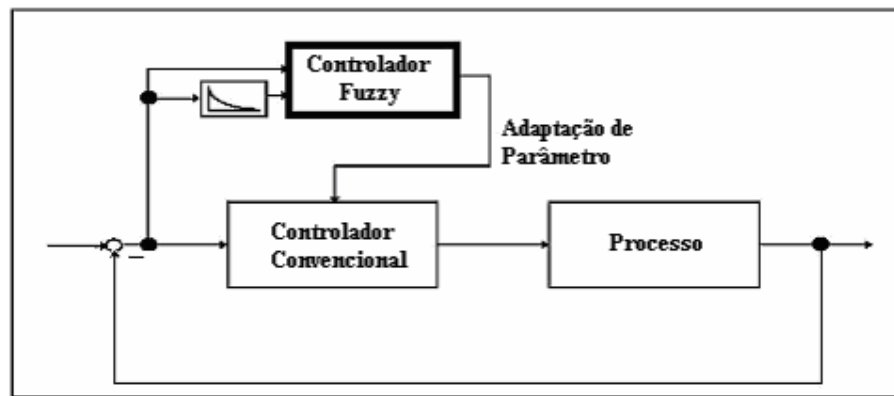


Figura 3.6 – Exemplo de adaptação de parâmetros

- Controle Direto Fuzzy

Essa aplicação é utilizada em processos em que a interferência humana é necessária em função do conhecimento empírico associado. Nesse processo a modelagem matemática usando PID é complexa e difícil de lidar. Para essa situação o controle direto fuzzy é investido com o conhecimento empírico do operador humano através de estratégia lingüística de modelagem. Essa abordagem se baseia na utilização de regras lingüísticas que traduzem expressões qualitativas, vagas e imprecisas, provenientes das observações de operadores humanos experientes. Nesse tipo de abordagem, é o operador humano que está sendo identificado, enquanto está à frente do controle do processo.

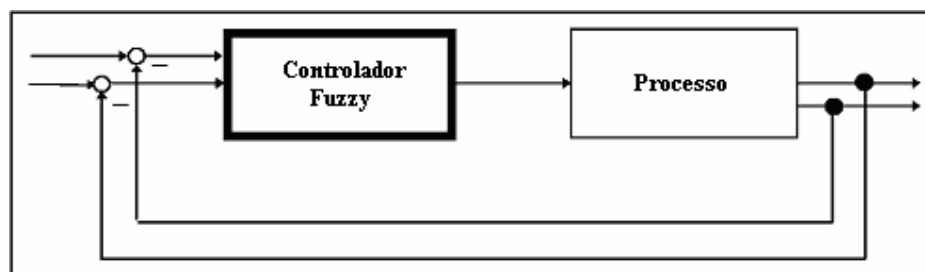


Figura 3.7 – Exemplo de controle direto fuzzy

Os exemplos de aplicação “pré-controle” e “adaptação de parâmetros” são usados em processos lineares ou quase lineares, ou seja, onde a modelagem matemática não é tão complexa. A aplicação do “controle direto fuzzy” por ser baseado em regras lingüísticas é

mais recomendável para se implementar em processo não lineares onde o conhecimento empírico do operador é o objetivo da modelagem [20].

Aplicando-se a teoria exposta ao problema de modelagem da perfuratriz, pode-se concluir que o controlador direto fuzzy é o que melhor se aplica ao processo em questão.

CAPÍTULO 4

CONSTRUÇÃO DO MODELO FUZZY PARA O CONTROLE DA PERFURATRIZ

4.1 - Perfuratriz Rotativa

As perfuratrizes rotativas operam nas Minas da CVRD em Itabira desde 1972. Esse tipo de equipamento é bastante complexo, com uma variedade de sistemas que interagem continuamente e exigem controles de alto desempenho e confiabilidade capazes de proporcionar uma supervisão eficaz e uma interface homem-máquina simples e amigável. Devido à obsolescência do projeto original, começaram a surgir problemas de fornecimento de peças, aumento no custo de manutenção e baixo desempenho operacional. Como solução para estes problemas foi substituída toda tecnologia eletroeletrônica ultrapassada por uma tecnologia moderna, através da utilização de inversores de frequência e controlador lógico programável (CLP). A modernização objetivou a melhoria do sistema de controle, proporcionando maior produtividade, maior confiabilidade, maior segurança para os operadores, bem como melhorias das suas condições operacionais. O primeiro equipamento modernizado entrou em operação no ano de 2002.



Figura 4.1 – Foto perfuratriz rotativa

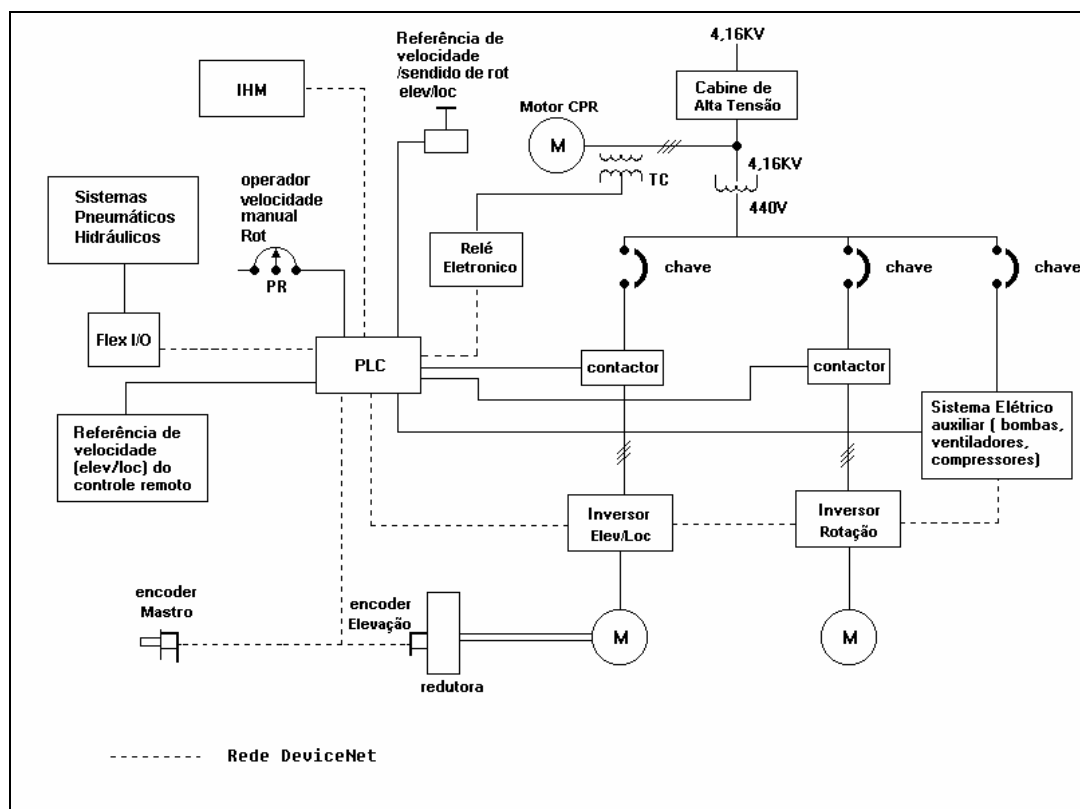


Figura 4.2 – Diagrama em blocos dos sistemas da perfuratriz

4.1.1 - Sistemas Principais

A seguir, tem-se a descrição sucinta dos principais sistemas da perfuratriz:

- Sistema de Rotação

Com o objetivo de girar as hastes e a broca para efetuar a perfuração, as perfuratrizes possuem um sistema de rotação montado sobre uma unidade que desliza sobre o mastro do equipamento. Esta unidade é denominada de cabeça rotativa. O sistema de rotação é constituído por um motor elétrico CA de 75hp cuja velocidade é controlada por um sistema de controle vetorial a inversor. A comunicação entre o CLP e o inversor de rotação é feita via rede de comunicação.

O controle da velocidade do conjunto é ajustado de forma manual com base na experiência do operador.

- *Sistema de Avanço e Elevação*

O sistema é composto de dois acionamentos: um elétrico e outro hidráulico.

O acionamento elétrico é responsável pelas operações de baixa carga (funções auxiliares) que são o posicionamento da haste sobre o furo e a elevação ou a retirada da haste do furo. Essa parte do acionamento conta com um motor CA de 100 hp cuja velocidade é controlada por um sistema de controle vetorial a inversor. O motor possui um freio dinâmico (chopper) para frenagens em descidas do conjunto haste/broca. Toda comunicação de controle e supervisão entre o inversor e o CLP é feita via rede de comunicação.

O acionamento hidráulico é responsável pelo avanço (penetração) do conjunto haste/broca sobre a rocha durante a perfuração em plena carga. Como o peso da coluna de perfuração (hastes, estabilizador e broca) não é suficiente para se obter a carga necessária, é preciso aplicar forças adicionais que são transmitidas exclusivamente através de energia hidráulica.

A máquina está programada com um sistema PID para perfuração automática que controla o esforço (torque) do motor de rotação. Esse sistema melhora o desempenho do motor fazendo-o trabalhar dentro de suas especificações. O princípio de funcionamento desse sistema de controle baseia-se nas variáveis de controle: corrente do motor de rotação e pressão do compressor principal, atuando na regulação da válvula proporcional da força de penetração (avanço).

Um encoder absoluto ligado à rede de comunicação é utilizado junto à caixa de elevação para informar ao operador a taxa de penetração da broca e também para controlar a posição da cabeça rotativa sobre o mastro.

- Sistema de Ar Comprimido Principal

Para se extrair os detritos gerados pela trituração das rochas no interior dos furos é utilizado um sistema de ar comprimido de alta capacidade. Esse sistema é composto por um supercompressor acionado por um motor de média tensão (4,16 kV) sendo monitorado por um relé de sobre-corrente inteligente ligado através da rede de comunicação ao CLP.

- Sistemas Hidráulicos e Pneumáticos

São compostos por 18 válvulas pneumáticas (2 vias e 3 posições) e 14 válvulas hidráulicas (4 vias e 3 posições) sendo que destas 2 são proporcionais: elevação do mastro e força de avanço (penetração).

Todo sistema é monitorado e controlado através de sensores discretos e analógicos (± 10 V) ligados à rede de comunicação por meio de uma interface remota (módulo de I/O) localizada na parede lateral do compartimento que abriga o sistema na cabine de operação.

O controle do mastro conta com encoder absoluto ligado diretamente à rede de comunicação que mede e informa ao CLP a posição do mastro em graus. Por meio deste dispositivo, o programa do CLP limita a elevação do mastro quando o mesmo não está com as travas inferiores acionadas.

- Sistema de Controle

O sistema de controle emprega um CLP industrial de alta capacidade responsável por gerenciar, controlar e supervisionar todos os demais sistemas da perfuratriz.

Para operação e diagnóstico de falhas é utilizado um painel IHM (Interface Homem-Máquina) na cabine do operador, conectado via rede de comunicação ao CLP.

4.1.2 - Princípio de Funcionamento

De acordo com [53] e [54], na perfuração por rotação, a broca ataca a rocha com a energia fornecida pela máquina à haste de perfuração, que transmite a rotação e o peso de avanço

(carga) para a broca. O mecanismo de avanço aplica uma carga hidráulica acima de 65% do peso da máquina, forçando a broca em direção à rocha. A broca quebra e remove a rocha por uma ação de raspagem em rochas macias, esmagamento-trituração-lasqueamento em rochas duras ou por uma combinação destas ações. Um compressor de alta capacidade de vazão aplica um jato de ar comprimido que ao passar pelo interior da broca e remove o material desagregado do interior do furo. A rotação é fornecida por um motor elétrico de 75 hp cuja velocidade normal varia de 50 a 100 rev/min. A relação entre a pressão necessária e a faixa de rotação, determina a velocidade e a eficiência da perfuração:

- a) a rocha branda requer menor pressão e rotação mais rápida;
- b) a rocha dura necessita de alta pressão e rotação mais lenta.

O controle automático de perfuração composto por um controlador PID estruturado em um CLP regula a força de avanço (penetração) em função da corrente do motor de rotação e da pressão interna da haste. O ajuste da velocidade de rotação é feito manualmente com base na experiência do operador.

A Figura 4.3 mostra os principais componentes de um sistema de perfuração rotativa: ar comprimido, sistema de elevação e avanço, motor de rotação, cabeça rotativa, haste, estabilizador e broca.

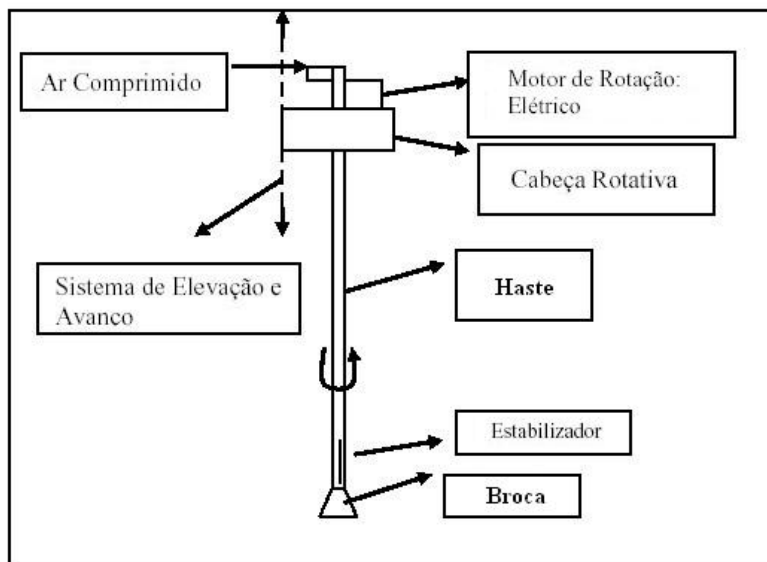


Figura 4.3 - Sistema de perfuração rotativo

Conforme descrito anteriormente, o controle de rotação é feito utilizando o operador humano como elo na malha de controle (ver *Figura 4.4*). Já o controle de avanço emprega controle automático utilizando o controlador PID convencional (ver *Figura 4.5*).

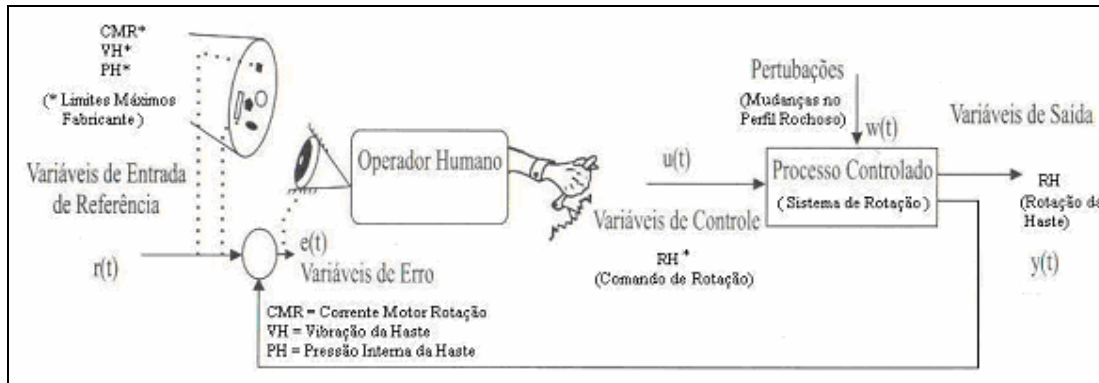


Figura 4.4 - Estratégia de controle do sistema de rotação

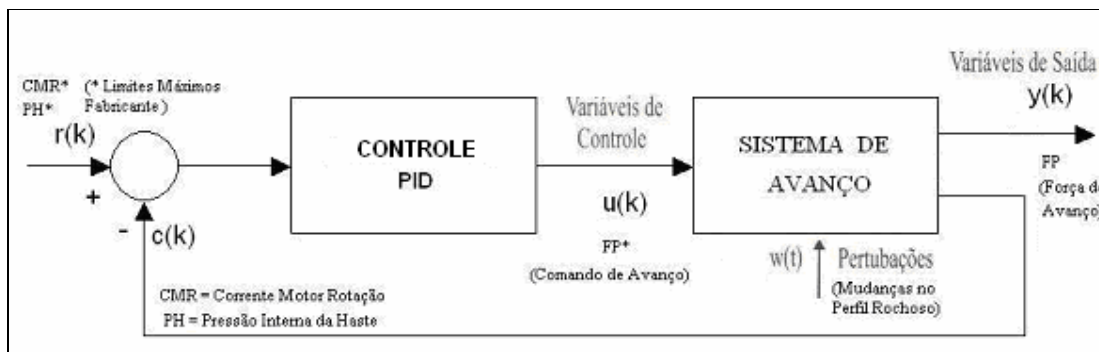


Figura 4.5 - Estratégia de controle do sistema de avanço

4.2 - Modelo Fuzzy Proposto

Conforme visto no Capítulo 2 (abordagem estatística), não foi possível obter o modelo do processo, de tal forma a viabilizar a solução para o controle eficiente dos sistemas de avanço (penetração) e de rotação, uma vez que estes necessitam de técnicas de controle mais avançadas do que as convencionais.

Como alternativa, propõe-se a implementação de um controlador fuzzy tipo Mamdani baseado em regras, buscando com este um desempenho mais adequado às necessidades do

processo, de forma a garantir maior velocidade nas respostas aos distúrbios e estabilização mais rápida dos sistemas.

Controladores fuzzy baseados em regras têm um grande número de vantagens práticas, que são discutidas nos trabalhos [19], [29], [42] e [46]. Em ambientes industriais a modelagem fuzzy baseada em regras é mais utilizada porque é mais fácil de se entender e corrigir e está mais de acordo com a premissa original do controle fuzzy, na medida que oferece um método para traduzir a experiência humana em leis de controle [38].

Segundo [29] e [51], um controlador fuzzy baseado em regras pode ser desenvolvido e codificado em qualquer linguagem de computador, de alto ou baixo nível e implementado em um PC ou sistema baseado em microprocessador.

Para desenvolvimento do modelo proposto, optou-se por utilizar a ferramenta computacional *fuzzyTECH® 5.5* da *Inform Software Corporation* [25]. A opção pelo desenvolvimento do modelo nesta ferramenta justifica-se por que este aplicativo atende as seguintes facilidades de implementação:

- ✓ possibilidade de se efetuar mudanças flexíveis no modelo fuzzy de forma rápida;
- ✓ disponibilidade de diversas opções correspondentes aos vários graus de liberdade, típicos de um sistema fuzzy;
- ✓ realimentação visual ao projetista, de forma a auxiliá-lo a acessar os efeitos das modificações do controlador fuzzy;
- ✓ possibilidade de implementação direta nas principais plataformas de CLP-fuzzy comercialmente disponíveis no mercado;
- ✓ reduz os requisitos de programação.

Para testar a flexibilidade e o desempenho do controlador fuzzy na solução do problema apresentado, foi utilizado o banco de dados com as variáveis coletadas em situação real de operação da perfuratriz (*Anexo 1*). Esse tópico será tratado com detalhes no Capítulo 5.

4.2.1 – Controlador Fuzzy Proposto

Em uma análise preliminar do problema, poderia se pensar em utilizar dois controladores: um para o sistema de avanço (penetração) e outro para o sistema de rotação. Porém, após entrevistas com os operadores especialistas, a definição da matriz de regras e uma análise do controle existente na perfuratriz, percebe-se um grau de interatividade similar das variáveis de saídas com as variáveis de entrada dos dois sistemas em questão. Essa interação leva a proposição de um único controlador contendo três entradas e duas saídas. A Figura 4.6 mostra a estrutura do controlador fuzzy proposto.

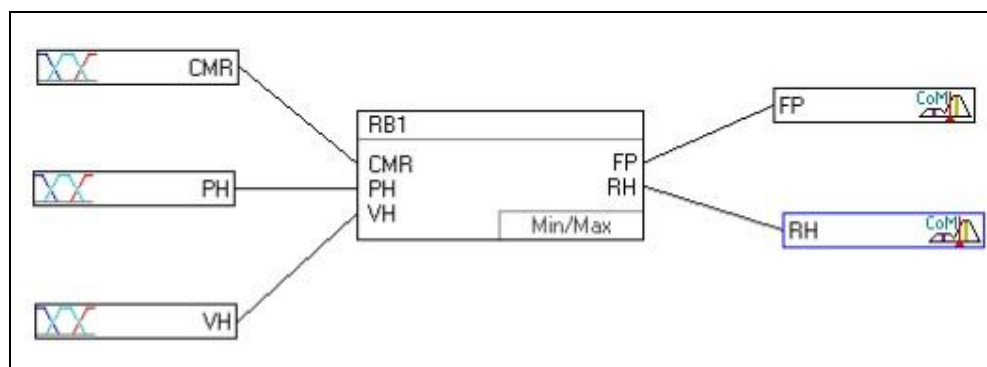


Figura 4.6 – Estrutura do controlador fuzzy de avanço e rotação

Novamente, as variáveis envolvidas são:

Entrada (variáveis de controle):

VH = *Vibração da Haste*

CMR = *Corrente Motor de Rotação*

PH = *Pressão Interna da Haste*

Saída (variáveis controladas):

FP = *Força de Penetração (avanço)*

RH = *Rotação da Haste*

O modelo proposto utiliza operador de implicação Mamdani e defuzzificação pelo Centro dos Máximos (CM). A descrição dessas técnicas e suas respectivas características foram detalhadas no Capítulo 3.

A função do controlador fuzzy é manter as saídas (força de penetração e rotação da haste) no ponto ótimo de operação, e, para isto, deverá responder aos desvios com maior ou menor taxa de variação, no sentido de estabilizar o controle de forma rápida e segura.

Observar que nesse tipo de modelagem é o operador humano que está sendo identificado enquanto ele está controlando o sistema conforme mostra a *Figura 4.7*. Essa metodologia é contrária a da modelagem estatística proposta no capítulo 2 no qual o processo foi o objeto da modelagem. Isso explica a inversão das variáveis de entrada e saída mostrada aqui em relação a que foi mostrada anteriormente.

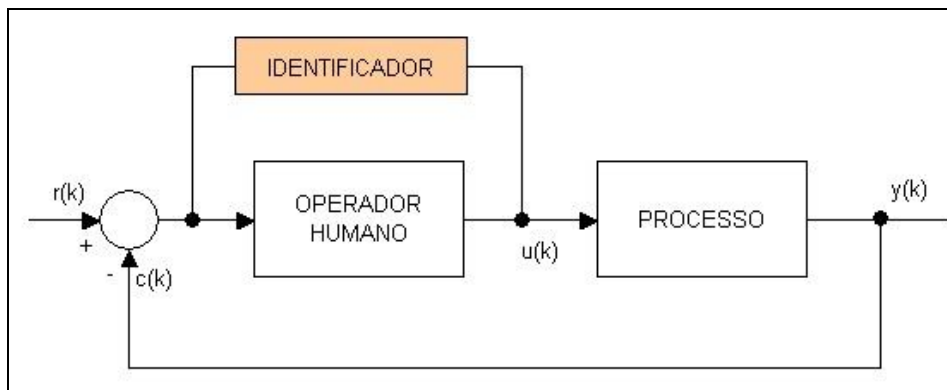


Figura 4.7 – Identificação do comportamento do operador humano

4.2.2 - Funções de Pertinência

Essa etapa está associada com a escolha dos valores fuzzy e de suas correspondentes funções de pertinência. Por isso, é necessário ressaltar que a maioria dos sistemas de controle baseados em lógica fuzzy utilizam funções de pertinência lineares, as quais são triangulares ou trapezoidais [3], [28], [36], [55] e [56]. No presente trabalho, também são utilizadas essas funções de pertinência. Particularmente, são usadas funções de pertinência triangulares para valores intermediários, e trapezoidais para os valores extremos.

A quantidade de funções e o formato foram definidos com base na disponibilidade computacional e no conhecimento intuitivo dos operadores especialistas a respeito do processo.

A seguir são mostradas as funções de pertinência de cada variável do processo:

- *Rotação da Haste*

Faixa de variação: 25 a 120 rpm.

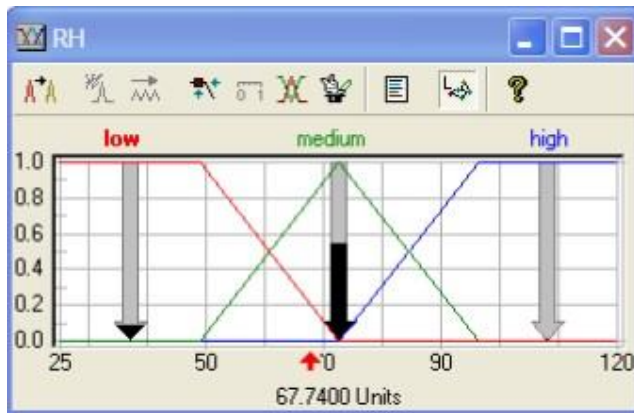


Figura 4.8 - Função pertinência da variável rotação da haste

- **Força de Penetração (Avanço)**

Faixa de variação: 300 a 1200 PSI (pressão).

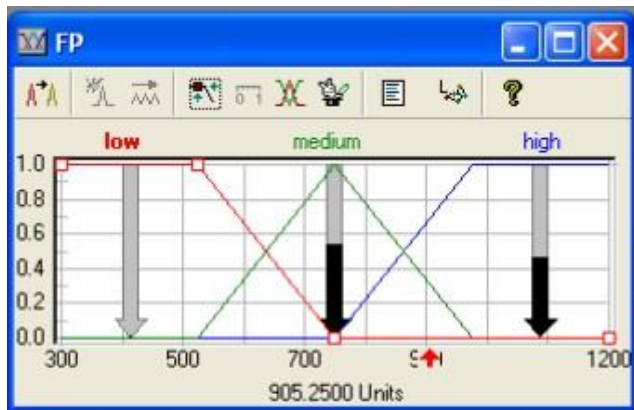


Figura 4.9 - Função pertinência da variável força de avanço

- **Vibração da Haste**

Faixa de variação: 1 a 25 mm/s.

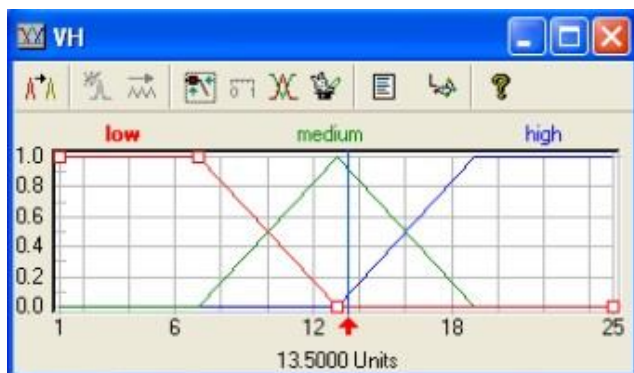


Figura 4.10 - Função pertinência da variável vibração da haste

- **Pressão Interna da Haste**

Faixa de variação: 35 a 75 PSI.

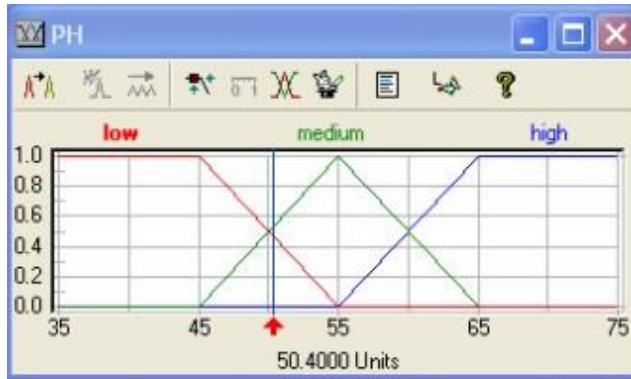


Figura 4.11 - Função pertinência da variável pressão interna da haste

- **Corrente do Motor de Rotação**

Faixa de variação: 30 a 120 Amper.

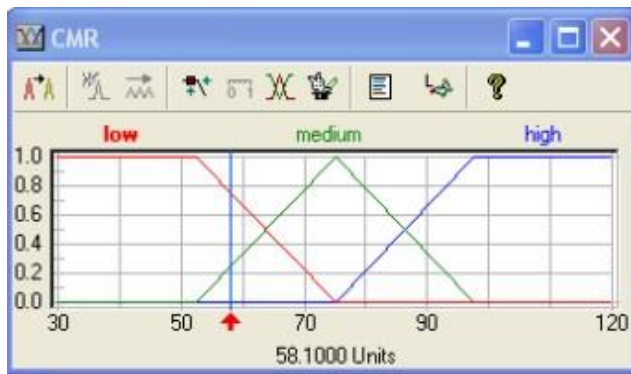


Figura 4.12 - Função pertinência da variável corrente do motor rotação

4.2.3 - Matriz de Regras

Após entrevistas com os operadores especialistas e a análise das informações adquiridas, foi proposto um conjunto de vinte e sete regras que correlacionam os valores das variáveis de saída em função do comportamento das variáveis de entrada. Essas regras caracterizam os objetivos de controle e a estratégia de controle utilizada pelos operadores da perfuratriz.

As regras foram editadas em uma planilha chamada *Spreadsheet Editor* disponibilizada pela ferramenta de software utilizada. O editor oferece ainda um fator de ponderação (*Degree of Support – DoS*) que auxilia o projetista na sintonia de cada regra durante o fase

de ajuste do projeto. Esse fator é inicialmente ajustado em 1. A *Figura 4.12* mostra o conjunto de regras levantado.

fuzzyTECH 5.55i IA-S5 Demo - <untitled>* - [Spreadsheet Rule Editor - RB1]							
#	IF			THEN		THEN	
	CMR	PH	VH	DoS	FP	DoS	RH
1	low	low	low	1.00	high	1.00	high
2	medium	low	low	1.00	high	1.00	medium
3	high	low	low	1.00	medium	1.00	medium
4	low	medium	low	1.00	high	1.00	high
5	medium	medium	low	1.00	high	1.00	medium
6	high	medium	low	1.00	low	1.00	medium
7	low	high	low	1.00	medium	1.00	high
8	medium	high	low	1.00	low	1.00	high
9	high	high	low	1.00	low	1.00	medium
10	low	low	medium	1.00	high	1.00	medium
11	medium	low	medium	1.00	high	1.00	medium
12	high	low	medium	1.00	medium	1.00	medium
13	low	medium	medium	1.00	medium	1.00	medium
14	medium	medium	medium	1.00	high	1.00	medium
15	high	medium	medium	1.00	medium	1.00	medium
16	low	high	medium	1.00	medium	1.00	medium
17	medium	high	medium	1.00	medium	1.00	medium
18	high	high	medium	1.00	low	1.00	medium
19	low	low	high	1.00	medium	1.00	low
20	medium	low	high	1.00	high	1.00	low
21	high	low	high	1.00	medium	1.00	low
22	low	medium	high	1.00	high	1.00	low
23	medium	medium	high	1.00	high	1.00	low
24	high	medium	high	1.00	medium	1.00	low
25	low	high	high	1.00	medium	1.00	low
26	medium	high	high	1.00	medium	1.00	low
27	high	high	high	1.00	low	1.00	low

Figura 4.13 - Conjunto de regras do controlador fuzzy de avanço e rotação

Tais regras, identificadas a partir do comportamento do operador humano (especialista) frente à condição real de operação possibilitam formulações que permitem controlar o sistema em questão.

O operador que teve seu conhecimento “capturado” opera este tipo de máquina há 25 anos sendo considerado operador modelo com relação à produção, baixo custo de manutenção e quebra de broca.

4.3 - Implementação em Hardware do Modelo fuzzy

Para a implementação do sistema proposto neste trabalho com a finalidade de controlar a força de penetração (avanço) e a rotação da haste da perfuratriz rotativa, serão necessários um CLP com função fuzzy e transdutores para a medição das variáveis de controle.

A Tabela 4.1 mostra a lista destes equipamentos com as suas respectivas funções.

Tabela 4.1 - Relação de equipamentos necessários para a implementação do sistema

<i>Equipamento</i>	<i>Função</i>
Sensor de pressão	Informar ao CLP convencional a pressão no interior da haste
Acelerômetro	Informar ao CLP convencional a vibração da haste
Sensor de corrente	Informar ao CLP convencional a corrente do motor de rotação
CLP com função fuzzy	Abrigar o programa com a solução fuzzy proposta

Todos os transdutores encontram-se disponíveis no atual hardware e conectados ao CLP convencional da perfuratriz. Sendo portando, necessário apenas a aquisição do CLP com função fuzzy [7], [40] e [51]. Os modelos de CLP fuzzy sugeridos são:

- C200H Alpha da Omron;
- PS4-401-MM2 da Moeller GmbH;
- SIMATIC S7 da Siemens.

Estes CLPs além de possuírem as funções fuzzy necessárias para instalação do programa e serem de pequeno porte (baixo custo), permitem comunicação direta com o CLP convencional existente na perfuratriz.

Um esquema de montagem para a implementação do hardware do sistema está ilustrado na Figura 4.13.

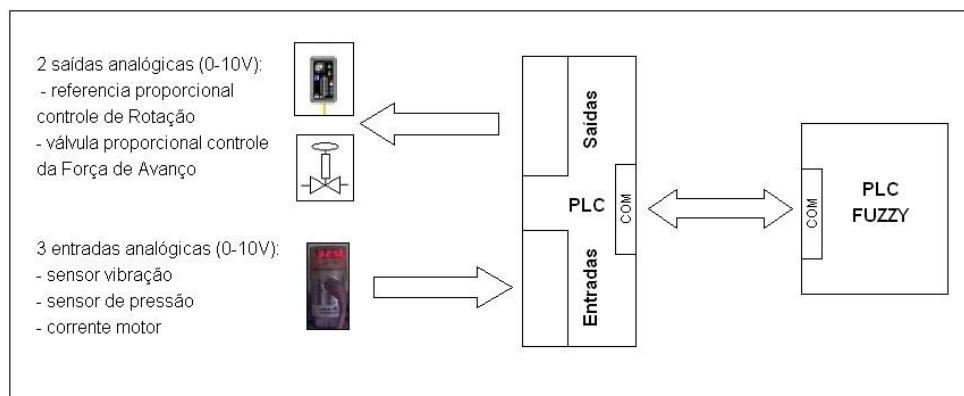


Figura 4.14 - Esquemático de implementação do hardware do sistema de controle

CAPÍTULO 5

RESULTADOS OBTIDOS

5.1 - Testes e Simulações

Testes foram realizados utilizando o recurso *interactive debug mode* que permite simular no controlador desenvolvido todas as situações do sistema real a partir de um banco de dados ou informações do operador humano. Para realização dos testes, foram utilizados dados reais de operação do banco de dados contidos no *Anexo 1*.

O exemplo abaixo ilustra a simulação das ações reais de controle do operador humano realizadas pelo controlador fuzzy proposto. As seguintes variáveis de entrada foram utilizadas no exemplo: $VH = 13,5$ mm/s, $CMR = 58,1$ A e $PH = 50,4$ PSI.

- Controle Humano

Operador Humano				
Variáveis de Controle			Variáveis Controladas	
VH (mm/s)	CMR (Amp)	PH (PSI)	FP (PSI)	RH (rpm)
13,5	58,1	50,4	905,20	68,8

- Controle Fuzzy

Controlador Fuzzy Proposto				
Variáveis de Controle			Variáveis Controladas	
VH (mm/s)	CMR (Amp)	PH (PSI)	FP (PSI)	RH (rpm)
13,5	58,1	50,4	905,25	72,5

A *Figura 5.1* mostra a tela do processamento fuzzy durante a simulação do exemplo em questão.

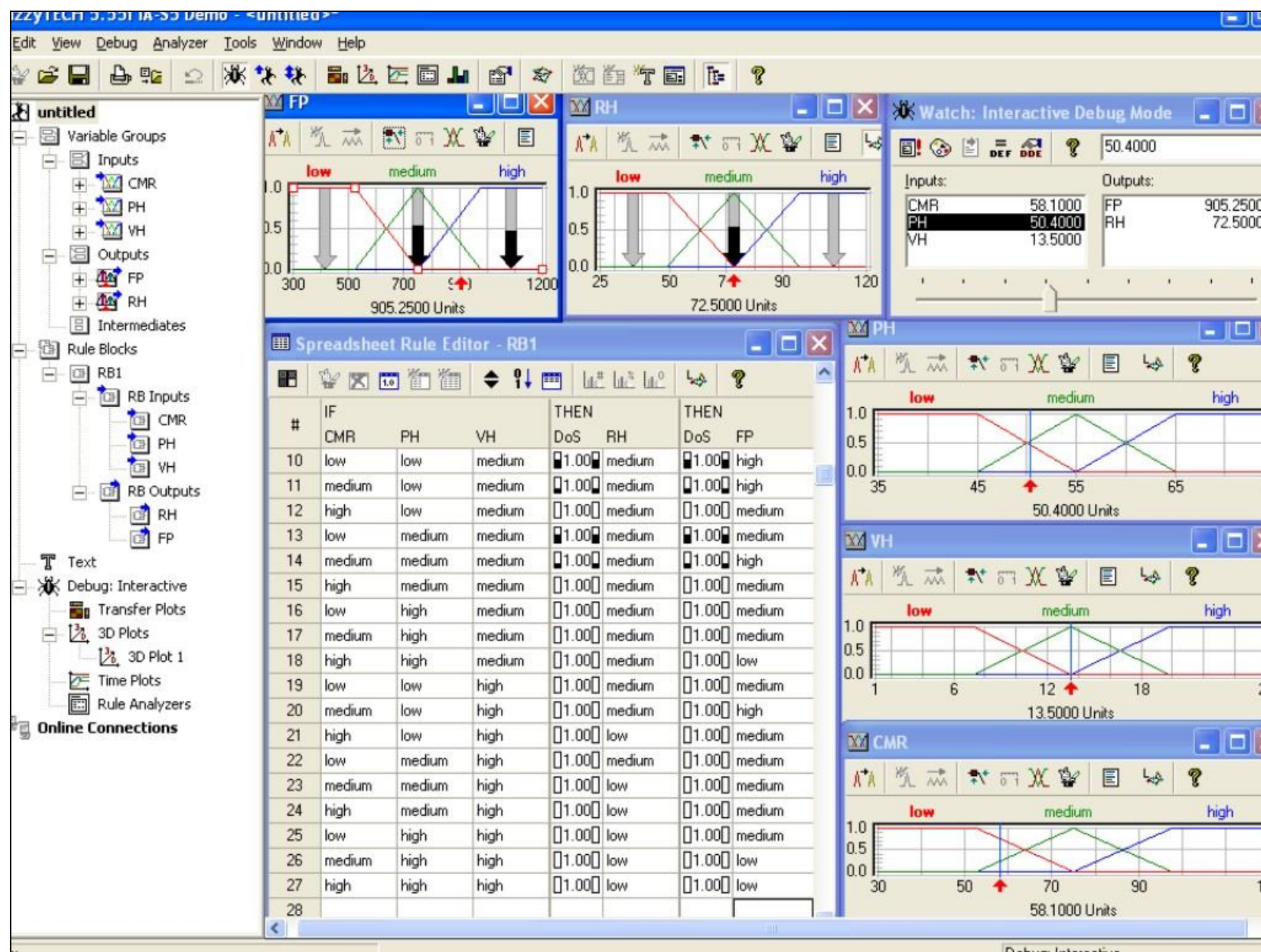


Figura 5.1 – Processamento fuzzy do controlador proposto

Na *Figura 5.1* é possível observar o mapeamento de cada variável no ponto exato de suas respectivas funções de pertinência bem como o nível de ativação das regras inferidas.

O conjunto de regras é uma implicação fuzzy matricial [42] onde as entradas implicam em uma determinada saída. Essa matriz pode ser entendida como uma superfície de controle tridimensional. Utilizando-se o recurso *3D plot mode* é possível obter as superfícies de controle. A *Figura 5.2* mostra as telas com as superfícies de controle das variáveis RH e FP (saídas controladas) no problema proposto.

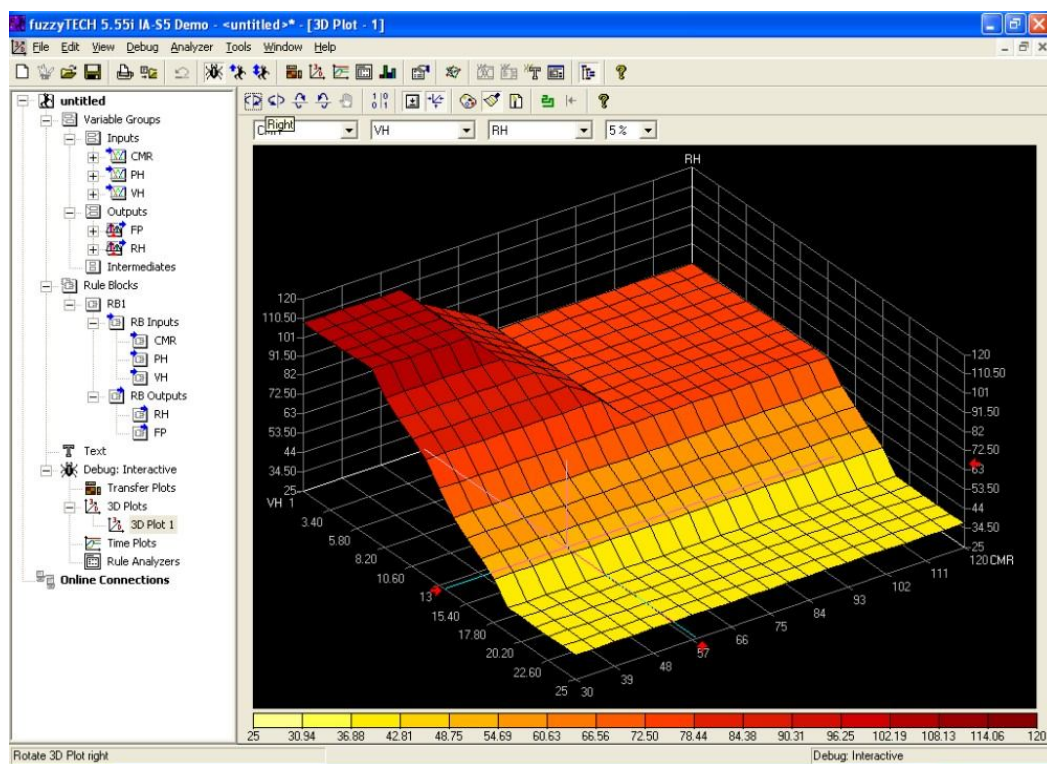


Figura 5.2a – Superfície de controle do sistema fuzzy proposto - RH $f(\text{CMR}, \text{VH})$

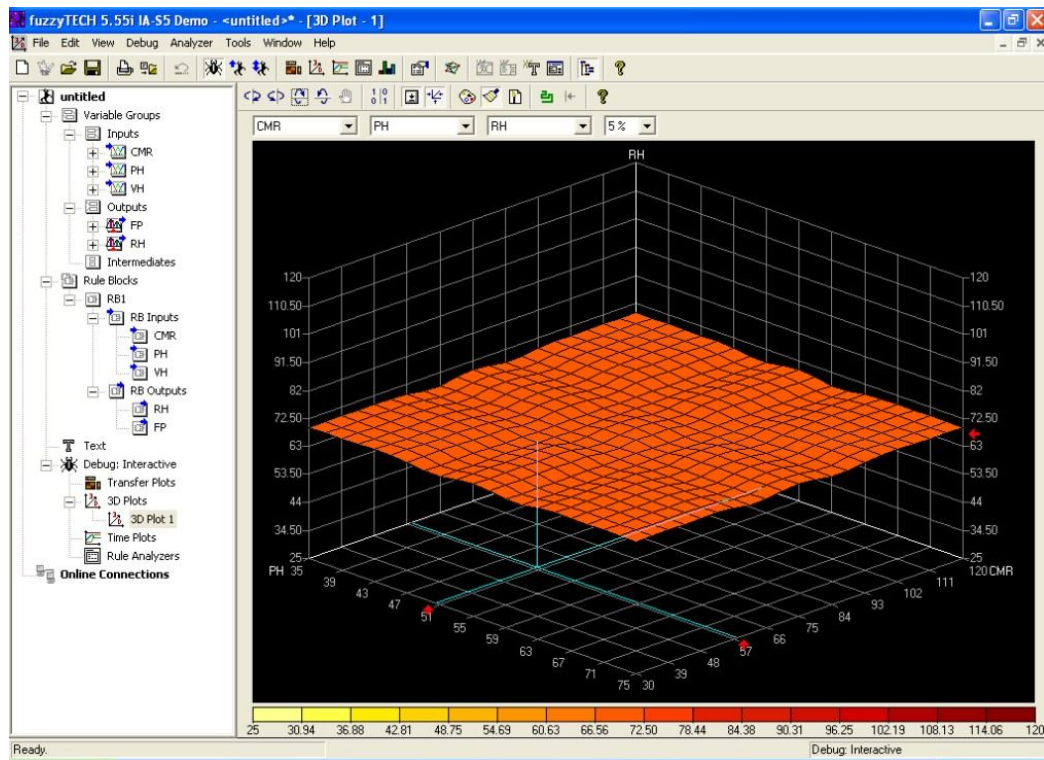


Figura 5.2b – Superfície de controle do sistema fuzzy proposto - $RH f(CMR, PH)$

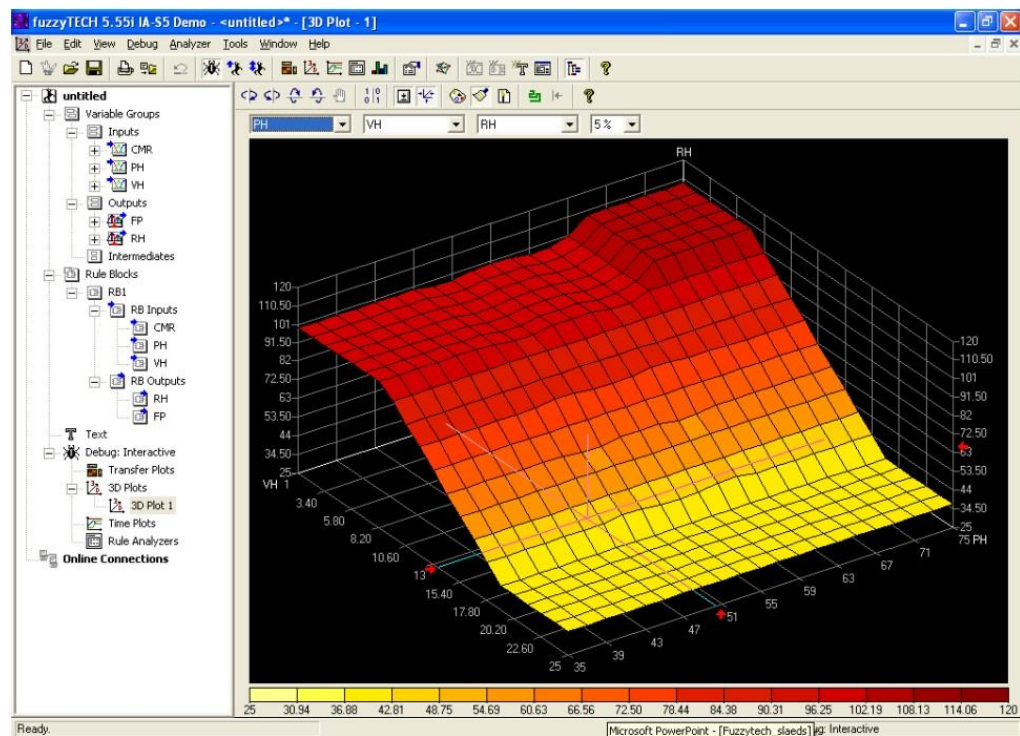


Figura 5.2c – Superfície de controle do sistema fuzzy proposto - $RH f(VH, PH)$

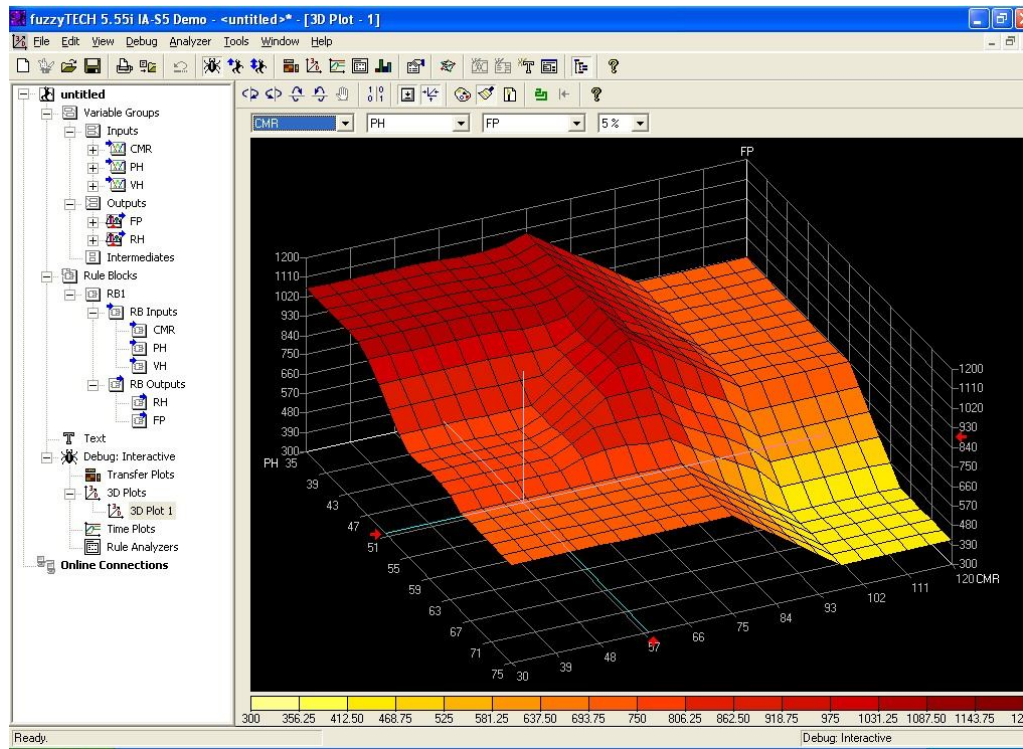


Figura 5.2d – Superfície de controle do sistema fuzzy proposto - $FP f(CMR, PH)$

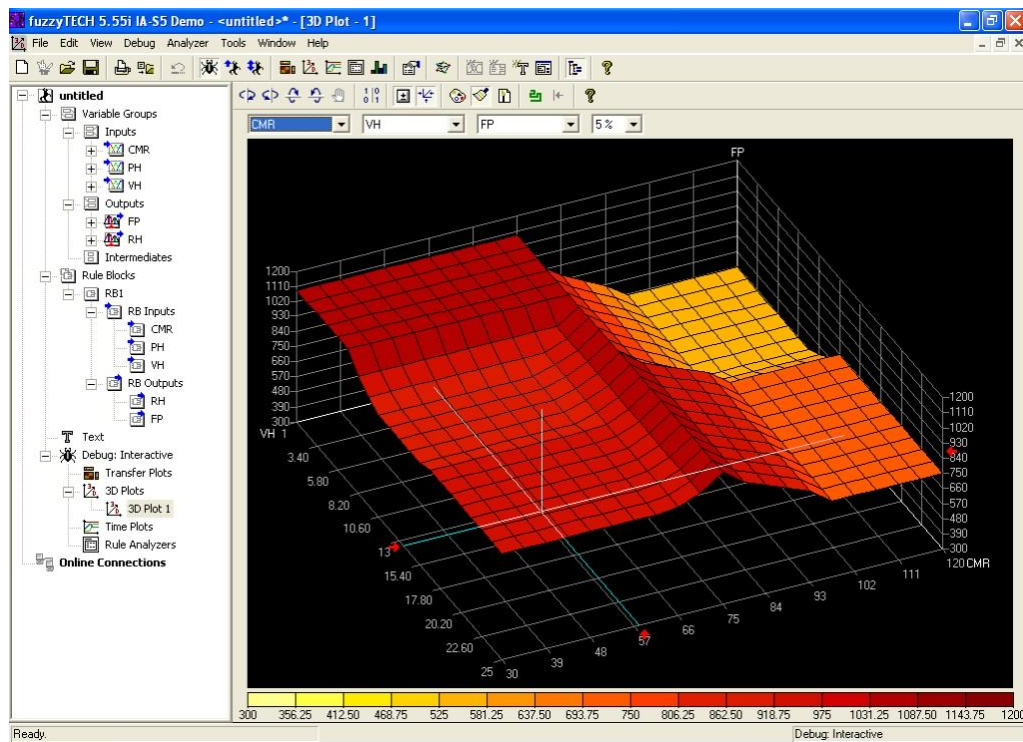


Figura 5.2e – Superfície de controle do sistema fuzzy proposto - $FP f(CMR, VH)$

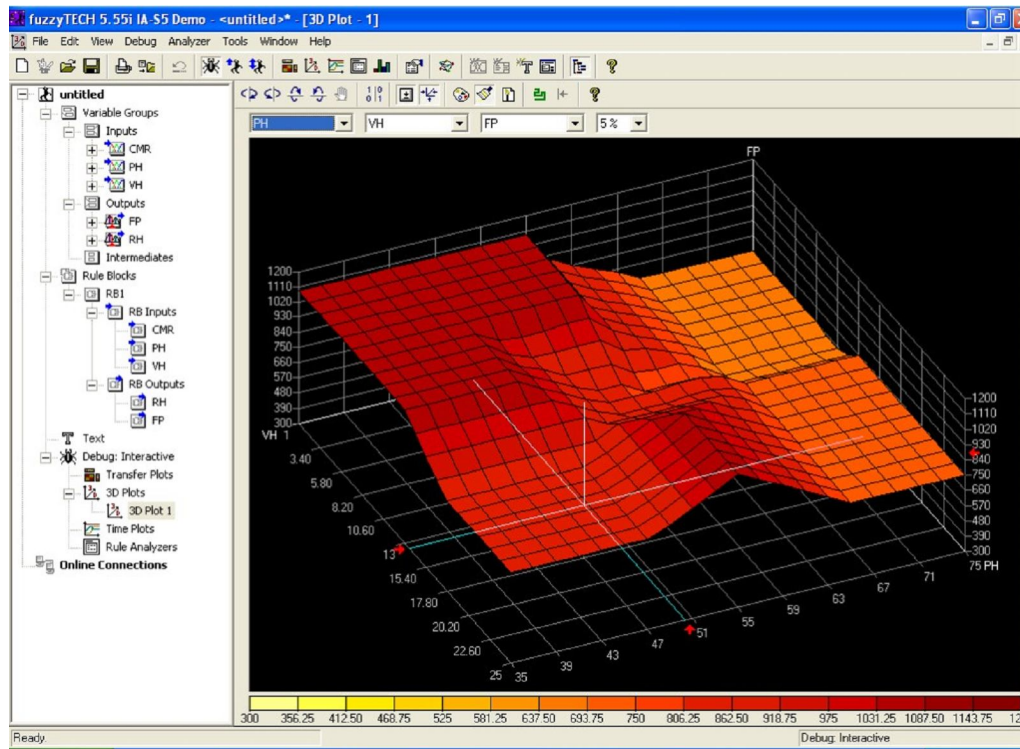


Figura 5.2f – Superfície de controle do sistema fuzzy proposto - $FP f(PH, VH)$

A ferramenta computacional utilizada possibilita a implementação do sistema proposto aqui com geração direta de código de máquina para circuitos de micro-controladores. Dessa forma, o controlador fuzzy pode ser facilmente implementado através de placas especializadas ou CLPs fuzzy industriais. Esses produtos estão disponíveis no mercado e regulamentados conforme normas *ISSO 9000* e *IEC 1131*.

5.2 - Desempenho do Controle Fuzzy Proposto

A Tabela 5.1 resume o desempenho do controle fuzzy proposto em relação ao controle humano frente às situações reais de controle. Para a avaliação foram selecionadas cinco situações reais das quais, uma é considerada operação normal e as demais operações críticas. Nas ações de controle humano, considerou-se a atuação do operador controlando todo o sistema (*RH* e *FP*) e; a atuação do operador controlando a rotação da haste (*RH*) em conjunto com o controle PID controlando a força de penetração (*FP*). As ações do controle fuzzy são provenientes de simulações realizadas com ferramenta de software utilizada neste estudo conforme descrito no item 5.1.

Situação	Variáveis de Controle			Variáveis Controladas								Cont.Fuzzy / Cont. do Especialista	
	Entradas			Condição Anterior à Atuação do Controle		Operador Humano + Controle PID		Operador Humano (Especialista)		Controlador Fuzzy Proposto			
	VH (mm/s)	CMR (Amp)	PH (PSI)	FP (PSI)	RH (rpm)	FP (PSI)	RH (rpm)	FP (PSI)	RH (rpm)	FP (PSI)	RH (rpm)	%	
1	13,5	58,1	50,4	905,0	68,8	905,0	68,8	905,0	68,8	905,3	72,5	100,0	105,4
2	26,8	43,8	48,0	373,0	100,0	373,0	41,0	923,0	41,0	851,2	36,9	92,2	89,9
	33,7	47,4	48,0	396,0	91,0	396,0	41,0	896,0	41,0	841,2	36,9	93,9	89,9
3	18,2	57,6	48,0	1077,0	100,3	1077,0	60,0	875,0	60,0	861,9	61,4	98,5	102,3
	15,6	51,6	48,0	835,0	130,0	835,0	80,7	946,0	80,7	974,1	72,2	103,0	89,4
4	8,3	105,7	46,0	1030,0	88,7	1030,0	68,7	730,0	68,7	713,8	72,5	97,8	105,5
	6,2	109,8	47,0	1022,0	48,7	1022,0	67,8	722,0	67,8	682,6	72,5	94,5	106,9
5	5,0	44,2	79,0	992,0	76,7	992,0	96,7	692,0	96,7	750,0	108,1	108,4	111,8
	3,6	46,1	84,0	930,0	76,7	930,0	76,7	430,0	76,7	502,8	85,7	116,9	111,7
Desvio Médio (%)											0,6	1,4	

Tabela 5.1 – Comparativo de Desempenho

A situação 1, refere-se a situação de perfuração em terreno com características predominantemente homogêneas e mostra boa performance dos três tipos de controle. Conforme descrito em [53] e [54], devido a variações litológicas nos maciços, perfurações neste tipo de terreno representa menos de 5% de todas as perfurações em uma mina de minério de ferro.

A situação 2 representa uma condição crítica causadora de vibração excessiva na broca o que pode provocar trincas na estrutura da perfuratriz. Essa situação é provocada pela mudança brusca do perfil de rocha (comum em terrenos com características heterogêneas) e exige ação rápida do controle sobre as variáveis *RH* e *FP*. O controle híbrido (operador + PID) corrige a rotação da haste (*RH*), porém, não corrige a força de penetração (*FP*) resultando em um baixo desempenho de perfuração. Já o controle apenas humano e o controle fuzzy apresentam ações similares e eficientes sobre as duas variáveis de controle (*RH* e *FP*).

A situação 3 também é considerada crítica devido à mudança brusca do perfil de perfuração (de rocha branda para rocha dura) e a necessidade de ação rápida do controle. Nessa situação o controle híbrido (operador + PID) age de forma similar a situação 2, ou seja, corrige a rotação da haste (*RH*) mas não corrige a força de penetração (*FP*). Com isso, tem-se uma força de penetração excessiva sobre a broca (o que é extremamente prejudicial) e o resultado final tende para a condição descrita na situação 4. Nessa situação o controle apenas humano e o controle fuzzy executam ações eficazes e aproximadas sobre as variáveis *RH* e *FP*.

A situação 4 é uma situação de operação crítica tendo como causa a mudança brusca do perfil de rocha ou a ação ineficiente do controle híbrido (conforme descrito no parágrafo anterior). Essa situação, além de aplicar força de penetração excessiva sobre a broca, provoca uma sobrecarga no motor de rotação que pode evoluir para queima do mesmo. A ação dos três controles nessa situação é similar a da situação 3.

Na situação 5, tem-se uma operação crítica devido à mudança de perfil de rocha dura para rocha branda. Essa mudança brusca provoca uma rápida penetração da broca no furo sem que se consiga retirar todo o material de suas laterais e da haste. Assim, tem-se uma elevação da pressão interna da haste sinalizando um provável travamento de todo o

conjunto (haste e broca). Essa situação é extremamente perigosa e exige uma ação de controle rápida. Novamente a ação do controle híbrido se restringe num ajuste da rotação da haste, o que não é suficiente para corrigir o distúrbio. A ação ideal de bloqueio para essa situação é a redução drástica da força de penetração (*FP*) e o ligeiro aumento da rotação da haste (*RH*). Essas ações são executadas pelo controle apenas humano e pelo controle fuzzy conforme demonstrado na *Tabela 5.1*.

O resultado mostra uma boa aproximação às respostas do controle humano pelo controle fuzzy. Verifica-se uma “captura” do *know-how* lingüístico do operador humano pelo controlador fuzzy proposto.

5.3 - Ganhos Esperados

Além de melhorar a eficiência do processo de operação com a melhoria no controle de avanço e a automação do controle de rotação, estima-se que o sistema proposto resultará em ganhos financeiros importantes, considerando que aumentará a produtividade e o tempo de vida útil das brocas [8]. Desta forma espera-se uma redução 13% nos custos e um aumento de 10% na capacidade produtiva da perfuratriz conforme indicado nos demonstrativos financeiros apresentados na *Tabela 5.2*.

Tabela 5.2 – Ganhos Estimados

	SITUAÇÃO ATUAL	SITUAÇÃO PROPOSTA	GANHOS ESPERADOS
Gasto com Brocas Tricones (Us\$)			
Qt Brocas por eqto - mês	8	7	
Total Brocas - ano	96	84	
Gasto médio mensal	30.400,00	26.600,00	
Gasto anual	364.800,00	319.200,00	-13%
Capacidade Produtiva			
Produtividade (Metro/HT)	11	12,1	
Qt eqtos	3	3	
Hora calendário	8784	8784	
Disponibilidade Física	75%	80%	7%
Utilização	72%	72%	
Capacidade de perfuração (metros/ ano)	156.531	183.663	17%

CAPÍTULO 6

CONCLUSÕES

6.1 - Conclusões do Trabalho

Introduzir inteligência aos sistemas de controle dos equipamentos de mina significa aumentar a segurança operacional e a confiabilidade, reduzir custos e, por consequência, aumentar a eficiência operacional.

Este trabalho apresentou uma proposta de um sistema de controle fundamentado no modelo lingüístico fuzzy como uma alternativa ao modelo PID tradicional. O objetivo foi de aumentar a eficiência de operação de uma perfuratriz da CVRD através da eficiência de modelos que buscam uma aproximação do comportamento humano, com base na experiência e intuição de operadores especialistas.

Enquanto o modelo matemático rigoroso reage com precisão e rigor obedecendo a limites rígidos, o modelo fuzzy permite tratar a incerteza e o conhecimento parcial em situações especiais obedecendo a limites de aproximação, como reage o operador especialista ao decidir por determinadas ações. Entretanto, o operador pode tomar decisões equivocadas como substituir o controle no momento errado, ou aumentar/diminuir a rotação da haste ou força de penetração um pouco mais/menos do que devia, ou parar o processo precipitadamente tendo a percepção de que errou. O modelo fuzzy proposto é regulamentado para não cometer estes equívocos, porque é baseado tanto na intuição do operador no julgamento da certeza ou da incerteza, quanto na sua experiência em decisões equivocadas.

As simulações mostraram que o modelo fuzzy (baseado em regras) aqui proposto é mais eficiente que o modelo PID convencional e mais rápido do que o operador especialista quando da necessidade de adaptações rápidas do processo por ocasião de perturbações bruscas (mudanças nos perfis dos maciços rochosos) ou operações em regiões críticas.

Pode-se afirmar, de forma conclusiva, que os resultados obtidos com o modelo proposto de sistema fuzzy baseado em regras, revelaram-se muito bons, correspondendo plenamente aos objetivos e às expectativas esperadas.

6.2 - Proposição de Trabalhos Futuros

Como continuidade ao trabalho aqui apresentado, propõe-se os seguintes trabalhos futuros:

- Verificar a possibilidade de aumento de eficiência na utilização do modelo fuzzy aqui proposto introduzindo a variável de controle “taxa de penetração”;
- A partir do modelo proposto, desenvolver uma interface de software que permita classificar o perfil perfurado e calcular a quantidade de explosivo a ser carregado em cada furo;
- Estudar a possibilidade de aplicação de modelos estatísticos não lineares e realizar correspondente análise comparativa;
- Usando os banco de dados coletado (*Anexo 1*), propor solução para o problema utilizando tecnologia de rede neural e comparar com o modelo fuzzy proposto.

ANEXO 1
DADOS COLETADOS
DO PROCESSO DA PERFURATIZ

Este anexo apresenta o banco de dados com informações reais do processo da perfuratriz e que serviu de linha base para o desenvolvimento do presente trabalho.

Tabela A1.1 – Banco de dados do processo da perfuratriz

Amos tra	DATA	VH (mm/s)	CMR (Amp)	PH (PSI)	FP (PSI)	RH (rpm)	Amos tra	DATA	VH (mm/s)	CMR (Amp)	PH (PSI)	FP (PSI)	RH (rpm)	Amos tra	DATA	VH (mm/s)	CMR (Amp)	PH (PSI)	FP (PSI)	RH (rpm)
1	13-out-05	4,1	40,7	45,0	983,0	99,8	104	17-out-05	13,2	50,3	50,0	821,0	85,7	207	17-out-05	7,4	51,7	51,0	888,0	89,9
2	13-out-05	6,4	42,6	46,0	1050,0	99,8	105	17-out-05	13,1	53,6	51,0	808,0	85,7	208	17-out-05	6,7	54,5	51,0	890,0	89,9
3	13-out-05	4,1	41,8	47,0	992,0	99,8	106	17-out-05	12,1	56,6	51,0	811,0	89,4	209	17-out-05	7,9	53,5	51,0	876,0	92,1
4	13-out-05	4,8	42,0	47,0	986,0	99,8	107	17-out-05	12,2	56,1	51,0	899,0	89,4	210	17-out-05	8,3	53,6	51,0	887,0	92,1
5	13-out-05	3,9	41,8	47,0	973,0	99,8	108	17-out-05	11,8	52,0	51,0	832,0	85,7	211	17-out-05	9,4	51,9	51,0	809,0	92,1
6	13-out-05	4,1	42,1	47,0	1001,0	99,8	109	17-out-05	13,8	54,2	51,0	839,0	89,4	212	17-out-05	8,9	52,7	51,0	870,0	92,1
7	13-out-05	6,1	41,7	47,0	972,0	96,0	110	17-out-05	12,4	52,7	51,0	893,0	85,7	213	17-out-05	8,0	51,5	51,0	870,0	92,1
8	13-out-05	4,2	42,0	47,0	964,0	95,6	111	17-out-05	12,6	56,4	51,0	844,0	89,4	214	17-out-05	7,7	49,3	51,0	822,0	92,1
9	13-out-05	5,1	42,0	47,0	970,0	95,6	112	17-out-05	12,3	56,0	51,0	822,0	89,4	215	17-out-05	8,9	53,1	51,0	899,0	92,1
10	13-out-05	5,5	41,0	47,0	962,0	95,7	113	17-out-05	11,7	56,4	51,0	808,0	89,4	216	17-out-05	7,6	53,5	51,0	888,0	92,1
11	13-out-05	4,7	41,8	47,0	973,0	95,7	114	17-out-05	12,6	54,6	51,0	849,0	89,4	217	17-out-05	8,6	52,8	51,0	809,0	92,1
12	13-out-05	5,5	41,9	47,0	975,0	95,8	115	17-out-05	13,3	54,5	51,0	842,0	89,4	218	17-out-05	7,9	54,8	51,0	890,0	92,1
13	13-out-05	5,8	42,8	47,0	984,0	95,8	116	17-out-05	12,8	54,4	51,0	801,0	89,4	219	17-out-05	9,9	53,8	51,0	865,0	92,1
14	13-out-05	7,5	42,3	48,0	1000,0	95,8	117	17-out-05	13,8	60,3	51,0	819,0	89,4	220	17-out-05	9,8	58,7	51,0	857,0	95,9
15	13-out-05	6,5	41,8	48,0	999,0	95,8	118	17-out-05	15,5	57,8	51,0	882,0	89,4	221	17-out-05	9,5	57,5	51,0	864,0	95,9
16	13-out-05	6,1	42,6	48,0	1012,0	95,8	119	17-out-05	15,5	59,8	51,0	888,0	89,4	222	17-out-05	8,1	56,8	51,0	884,0	95,9
17	13-out-05	4,2	42,4	47,0	962,0	95,7	120	17-out-05	16,1	58,7	51,0	839,0	89,4	223	17-out-05	11,3	58,4	51,0	870,0	95,9
18	13-out-05	6,5	42,3	47,0	973,0	95,8	121	17-out-05	16,1	58,4	51,0	880,0	80,3	224	17-out-05	10,0	57,6	51,0	869,0	95,9
19	13-out-05	5,1	42,1	48,0	958,0	98,0	122	17-out-05	17,3	60,3	51,0	880,0	89,4	225	17-out-05	11,4	52,9	51,0	780,0	89,2
20	13-out-05	7,6	42,8	48,0	1027,0	97,3	123	17-out-05	16,4	61,4	51,0	829,0	89,4	226	17-out-05	9,5	63,6	51,0	869,0	88,6
21	13-out-05	13,2	43,9	48,0	1026,0	97,3	124	17-out-05	17,8	59,8	51,0	838,0	89,4	227	17-out-05	8,9	60,9	51,0	877,0	86,2
22	13-out-05	8,9	43,1	48,0	1023,0	97,3	125	17-out-05	14,9	49,3	51,0	943,0	85,7	228	17-out-05	10,4	66,9	51,0	853,0	86,2
23	13-out-05	8,6	43,7	48,0	1088,0	97,3	126	17-out-05	28,1	45,7	51,0	888,0	85,7	229	17-out-05	9,8	61,7	51,0	806,0	86,1
24	13-out-05	9,0	44,1	48,0	1030,0	97,3	127	17-out-05	13,8	46,9	51,0	988,0	85,7	230	17-out-05	8,8	69,3	51,0	872,0	86,2
25	13-out-05	6,4	44,4	48,0	1096,0	97,3	128	17-out-05	11,8	55,4	51,0	888,0	89,4	231	17-out-05	10,2	54,4	51,0	836,0	86,1
26	13-out-05	9,4	42,9	48,0	1030,0	97,3	129	17-out-05	13,0	50,0	51,0	919,0	89,4	232	17-out-05	11,3	61,7	52,0	900,0	86,2
27	13-out-05	7,4	43,2	47,0	1017,0	97,3	130	17-out-05	23,6	45,5	51,0	831,0	85,7	233	17-out-05	7,7	58,9	52,0	864,0	86,2
28	13-out-05	7,4	42,9	48,0	1029,0	97,3	131	17-out-05	14,0	47,4	51,0	929,0	85,7	234	17-out-05	7,2	57,7	52,0	818,0	86,1
29	13-out-05	8,5	43,5	48,0	1050,0	97,3	132	17-out-05	12,8	52,4	51,0	849,0	85,7	235	17-out-05	8,6	65,9	52,0	799,0	86,2
30	13-out-05	16,6	44,7	47,0	1089,0	100,1	133	17-out-05	10,9	53,0	51,0	893,0	85,7	236	17-out-05	9,1	55,3	52,0	805,0	86,1
31	13-out-05	26,8	43,8	48,0	923,0	41,0	134	17-out-05	10,8	53,9	51,0	883,0	85,7	237	17-out-05	8,6	57,1	52,0	884,0	86,1
32	13-out-05	8,3	45,9	48,0	1063,0	100,1	135	17-out-05	11,7	58,6	51,0	880,0	89,4	238	17-out-05	7,5	65,7	53,0	899,0	86,2
33	13-out-05	13,6	44,2	48,0	1041,0	100,1	136	17-out-05	15,2	54,2	51,0	888,0	85,7	239	17-out-05	6,9	59,8	53,0	796,0	86,1
34	13-out-05	9,4	44,3	48,0	1064,0	100,0	137	17-out-05	17,4	60,3	51,0	838,0	89,4	240	17-out-05	6,7	60,2	53,0	905,0	86,2
35	13-out-05	15,0	45,1	47,0	1065,0	100,1	138	17-out-05	18,8	63,0	51,0	898,0	89,4	241	17-out-05	6,1	54,0	53,0	841,0	86,1
36	13-out-05	6,6	44,5	48,0	1221,0	100,1	139	17-out-05	16,8	61,0	51,0	884,0	89,4	242	17-out-05	6,9	60,7	53,0	774,0	86,1
37	13-out-05	6,9	46,6	48,0	1273,0	100,1	140	17-out-05	12,7	62,6	48,0	838,0	88,4	243	17-out-05	8,4	60,0	53,0	713,0	86,2
38	13-out-05	14,5	48,1	48,0	1069,0	100,1	141	17-out-05	14,0	54,7	48,0	891,0	89,4	244	17-out-05	6,6	55,0	53,0	900,0	86,1
39	13-out-05	7,6	46,2	48,0	1231,0	100,5	142	17-out-05	12,7	55,9	48,0	882,0	89,4	245	17-out-05	6,6	56,5	53,0	887,0	86,2
40	13-out-05	14,2	47,4	48,0	1177,0	103,2	143	17-out-05	17,8	55,8	49,0	884,0	89,4	246	17-out-05	6,1	52,4	53,0	838,0	86,1
41	13-out-05	9,3	51,4	48,0	976,0	103,3	144	17-out-05	32,5	61,7	50,0	880,0	89,4	247	17-out-05	7,1	61,0	53,0	880,0	86,2
42	13-out-05	9,3	52,9	48,0	696,0	103,4	145	17-out-05	17,4	55,3	50,0	869,0	93,7	248	17-out-05	6,6	57,8	53,0	849,0	86,1
43	13-out-05	7,4	51,1	48,0	1273,0	103,4	146	17-out-05	24,0	54,3	50,0	821,0	87,1	249	17-out-05	7,2	53,3	53,0	899,0	99,9
44	13-out-05	8,5	49,8	48,0	982,0	93,5	147	17-out-05	21,8	53,8	50,0	861,0	89,6	250	17-out-05	6,9	56,8	53,0	900,0	99,9
45	13-out-05	9,8	47,6	48,0	976,0	93,5	148	17-out-05	33,8	53,6	50,0	787,0	82,4	251	17-out-05	6,5	55,2	54,0	890,0	99,5
46	13-out-05	15,0	45,8	48,0	396,0	103,4	149	17-out-05	29,2	51,9	51,0	903,0	85,6	252	17-out-05	6,0	52,5	54,0	884,0	99,9
47	13-out-05	15,9	44,6	48,0	949,0	88,5	150	17-out-05	16,1	54,2	51,0	901,0	88,6	253	17-out-05	7,1	52,4	54,0	876,0	99,9
48	13-out-05	9,5	45,0	48,0	852,0	70,9	151	17-out-05	29,1	57,8	51,0	898,0	82,9	254	17-out-05	7,0	53,0	55,0	865,0	99,9
49	13-out-05	8,5	43,1	48,0	944,0	70,9	152	17-out-05	21,6	55,4	51,0	918,0	99,7	255	17-out-05	6,2	52,5	54,0	887,0	99,9
50	13-out-05	14,6	45,0	48,0	870,0	70,9	153	17-out-05	7,1	54,3	51,0	897,0	86,2	256	17-out-05	8,9	53,6	55,0	892,0	99,9
51	13-out-05	33,7	47,4	48,0	896,0	41,0	154	17-out-05	24,5	58,0	51,0	903,0	81,3	257	17-out-05	8,4	54,4	55,0	893,0	85,2
52	13-out-05	13,7	51,4	48,0	818,0	96,6	155	17-out-05	18,8	58,4	51,0	875,0	81,3	258	17-out-05	8,8	51,3	56,0	901,0	85,1
53	13-out-05	14,5	49,4	48,0	885,0	96,7	156	17-out-05	11,4	55,6	51,0	882,0	81,3	259	17-out-05	7,7	53,7	56,0	784,0	85,2
54	13-out-05	13,5	53,7	48,0	803,0	97,4	157	17-out-05	15,5	59,9	51,0	884,0	83,8	260	17-out-05	8,6	53,9	57,0	888,0	85,1
55	13-out-05	13,5	54,3	48,0	800,0	97,2	158	17-out-05	17,1	65,4	51,0	906,0	83,8	261	17-out-05	8,3	52,1	57,0	872,0	85,1
56	13-out-05	14,5	51,9	48,0	729,0	97,2	159	17-out-05	11,0	66,6	51,0	837,0	83,9	262	17-out-05	7,6	50,7	57,0	895,0	85,1
57	13-out-05	15,5	56,8	48,0	892,0	84,4	160	17-out-05	15,6	64,7	51,0	872,0	83,9	263	17-out-05	8,4	52,8	58,0	863,0	85,2
58	13-out-05	13,2	54,8	48,0	909,0	102,8	161	17-out-05	15,2	62,2	51,0	861,0	83,9	264	17-out-05	8,5	53,1	60,0	641,0	85,2
59	17-out-05	2,4	39,9	46,0	711,0	89,2	162	17-out-05	14,2	61,2	51,0	858,0	83,8	265	17-out-05	7,6	55,4	59,0	852,0	85,2
60	17-out-05	6,2	43,3	47,0	865,0	89,3	163	17-out-05	14,7	59,9	51,0	854,0	86,4	266	17-out-05	8,0	51,6	58,0	851,0	85,2
61	17-out-05	5,7	48,3	48,0	857,0	81,8	164	17-out-05	19,7	62,4	51,0	847,0	86,5	267	17-out-05	7,0	57,4	58,0	852,0	85,2
62	17-out-05	5																		

70	17-out-05	5,5	54,2	48,0	872,0	88,3	173	17-out-05	15,2	55,4	51,0	804,0	86,6	276	17-out-05	6,7	55,4	62,0	751,0	85,2
71	17-out-05	6,7	53,5	48,0	882,0	88,3	174	17-out-05	13,6	52,8	51,0	869,0	86,6	277	17-out-05	6,7	63,3	61,0	887,0	85,3
72	17-out-05	13,6	51,5	48,0	889,0	90,0	175	17-out-05	11,4	57,8	51,0	817,0	86,6	278	17-out-05	7,0	63,8	60,0	828,0	85,3
73	17-out-05	18,8	50,6	48,0	891,0	90,0	176	17-out-05	15,4	58,7	51,0	869,0	88,7	279	17-out-05	6,9	65,9	60,0	815,0	85,3
74	17-out-05	21,3	53,7	48,0	893,0	85,7	177	17-out-05	14,1	63,9	51,0	778,9	88,2	280	17-out-05	5,8	68,9	59,0	857,0	85,3
75	17-out-05	15,6	51,3	48,0	888,0	98,0	178	17-out-05	11,0	59,1	51,0	863,0	88,2	281	17-out-05	6,0	68,0	59,0	702,0	85,3
76	17-out-05	15,4	48,0	48,0	832,0	90,0	179	17-out-05	8,8	57,7	51,0	872,0	88,2	282	17-out-05	6,0	66,5	58,0	836,0	85,3
77	17-out-05	11,9	46,4	48,0	930,0	90,0	180	17-out-05	11,4	56,8	51,0	818,0	89,4	283	17-out-05	6,6	68,4	58,0	880,0	85,3
78	17-out-05	11,4	47,7	48,0	938,0	90,0	181	17-out-05	11,7	54,7	51,0	848,0	89,4	284	17-out-05	7,5	66,9	58,0	885,0	85,3
79	17-out-05	12,6	46,6	48,0	939,0	90,0	182	17-out-05	11,7	55,1	51,0	898,0	89,4	285	17-out-05	7,7	62,4	58,0	894,0	85,3
80	17-out-05	10,8	48,9	48,0	999,0	90,0	183	17-out-05	15,6	57,2	51,0	881,0	89,4	286	17-out-05	8,1	62,1	58,0	877,0	85,2
81	17-out-05	9,9	48,0	48,0	903,0	96,2	184	17-out-05	5,8	50,7	51,0	887,0	88,1	287	17-out-05	7,9	56,4	59,0	847,0	85,2
82	17-out-05	13,1	49,7	48,0	938,0	90,0	185	17-out-05	7,4	56,4	51,0	823,0	93,3	288	17-out-05	7,5	60,1	59,0	877,0	85,2
83	17-out-05	12,7	51,7	48,0	893,0	85,7	186	17-out-05	7,9	63,9	50,0	877,0	81,2	289	17-out-05	6,6	58,6	59,0	885,0	85,2
84	17-out-05	12,3	46,9	48,0	889,0	90,0	187	17-out-05	8,5	67,0	51,0	900,0	88,9	290	17-out-05	7,9	57,5	59,0	881,0	85,2
85	17-out-05	14,2	48,1	48,0	889,0	90,0	188	17-out-05	7,0	64,9	51,0	791,0	88,0	291	17-out-05	7,6	56,4	59,0	882,0	85,2
86	17-out-05	14,0	50,9	48,0	809,0	90,0	189	17-out-05	7,1	60,3	51,0	854,0	88,8	292	17-out-05	7,0	56,6	59,0	900,0	85,2
87	17-out-05	12,3	49,4	48,0	929,0	85,7	190	17-out-05	7,5	59,1	51,0	848,0	86,9	293	17-out-05	8,0	56,0	59,0	886,0	85,2
88	17-out-05	13,3	47,8	48,0	928,0	90,0	191	17-out-05	8,0	57,5	51,0	861,0	86,6	294	17-out-05	6,7	57,2	59,0	881,0	85,2
89	17-out-05	10,3	50,3	48,0	934,0	90,0	192	17-out-05	9,8	61,7	51,0	884,0	88,3	295	17-out-05	7,5	55,7	58,0	895,0	85,2
90	17-out-05	11,0	48,6	48,0	909,0	90,0	193	17-out-05	10,0	63,2	51,0	894,0	88,2	296	17-out-05	7,0	56,4	59,0	881,0	85,2
91	17-out-05	12,7	50,2	48,0	931,0	85,7	194	17-out-05	8,6	62,5	51,0	869,0	88,1	297	17-out-05	8,1	58,4	59,0	921,0	85,2
92	17-out-05	11,4	50,5	48,0	943,0	85,7	195	17-out-05	8,5	58,4	51,0	878,0	88,9	298	17-out-05	8,0	58,3	59,0	882,0	85,2
93	17-out-05	12,8	49,3	48,0	918,0	85,7	196	17-out-05	8,9	57,0	51,0	845,0	89,9	299	17-out-05	7,6	55,7	59,0	833,0	85,2
94	17-out-05	14,2	51,1	48,0	949,0	85,7	197	17-out-05	9,9	55,5	51,0	880,0	89,9	300	17-out-05	8,1	58,3	59,0	882,0	85,2
95	17-out-05	13,5	49,3	48,0	888,0	85,7	198	17-out-05	7,7	55,1	51,0	761,0	89,9	301	17-out-05	8,8	56,7	60,0	878,0	85,2
96	17-out-05	14,7	48,5	48,0	908,0	90,0	199	17-out-05	8,1	56,1	51,0	874,0	89,9	302	17-out-05	6,4	58,0	60,0	763,0	85,2
97	17-out-05	11,8	48,7	48,0	931,0	85,7	200	17-out-05	7,6	51,8	51,0	876,0	89,8	303	17-out-05	7,5	56,6	59,0	871,0	85,2
98	17-out-05	16,1	50,9	49,0	988,0	85,7	201	17-out-05	8,0	53,0	51,0	753,0	89,8	304	17-out-05	8,0	57,2	59,0	881,0	85,2
99	17-out-05	9,7	50,4	50,0	812,0	85,7	202	17-out-05	7,1	55,2	51,0	902,0	89,8	305	17-out-05	7,7	56,7	58,0	906,0	85,2
100	17-out-05	11,6	53,6	50,0	888,0	85,7	203	17-out-05	7,0	53,8	51,0	887,0	89,8	306	17-out-05	7,1	58,1	58,0	880,0	85,2
101	17-out-05	11,8	51,0	51,0	930,0	85,7	204	17-out-05	7,0	52,9	51,0	903,0	89,8	307	17-out-05	8,4	55,4	58,0	882,0	83,7
102	17-out-05	17,4	46,0	50,0	884,0	85,7	205	17-out-05	7,4	52,9	51,0	911,0	89,8	308	17-out-05	7,6	59,1	58,0	852,0	83,7
103	17-out-05	14,1	49,6	51,0	988,0	85,7	206	17-out-05	7,7	58,8	51,0	890,0	89,9	309	17-out-05	9,3	59,4	61,0	875,0	83,7
310	17-out-05	8,3	61,8	58,0	894,0	83,8	415	19-out-05	10,0	61,4	48,0	810,0	90,7	520	19-out-05	11,2	54,4	48,0	676,0	90,7
311	17-out-05	7,4	62,6	58,0	886,0	83,8	416	19-out-05	9,8	62,1	48,0	777,0	83,4	521	19-out-05	13,5	52,9	48,0	730,0	90,7
312	17-out-05	8,1	62,2	58,0	927,0	83,8	417	19-out-05	8,3	59,9	48,0	789,0	83,4	522	19-out-05	12,4	54,2	48,0	746,0	90,7
313	17-out-05	7,7	65,0	59,0	877,0	83,8	418	19-out-05	11,6	59,7	48,0	766,0	83,4	523	19-out-05	16,9	55,3	48,0	779,0	90,7
314	17-out-05	7,4	67,7	61,0	866,0	83,8	419	19-out-05	16,4	52,9	48,0	538,0	90,7	524	19-out-05	14,0	55,1	48,0	733,0	90,7
315	17-out-05	7,5	66,2	62,0	876,0	83,8	420	19-out-05	13,0	53,6	48,0	631,0	90,7	525	19-out-05	15,7	53,8	48,0	752,0	90,7
316	17-out-05	5,7	66,6	63,0	885,0	83,8	421	19-out-05	10,8	56,1	48,0	688,0	90,7	526	19-out-05	13,1	53,3	48,0	753,0	90,7
317	17-out-05	6,5	67,9	64,0	872,0	83,8	422	19-out-05	9,7	57,4	48,0	700,0	90,7	527	19-out-05	13,5	54,9	48,0	765,0	90,7
318	17-out-05	8,0	67,9	66,0	786,0	83,8	423	19-out-05	10,2	57,3	48,0	734,0	90,7	528	19-out-05	11,2	55,9	48,0	763,0	90,7
319	17-out-05	6,9	66,7	68,0	784,0	83,8	424	19-out-05	8,6	57,5	48,0	711,0	90,7	529	19-out-05	13,0	55,0	48,0	768,0	90,7
320	17-out-05	5,5	68,1	68,0	805,0	83,8	425	19-out-05	9,4	55,5	48,0	734,0	90,7	530	19-out-05	12,3	53,8	48,0	767,0	90,7
321	17-out-05	6,2	59,9	69,0	859,0	83,8	426	19-out-05	9,8	55,1	48,0	729,0	90,7	531	19-out-05	10,8	56,5	48,0	770,0	90,7
322	17-out-05	5,8	63,8	67,0	855,0	83,8	427	19-out-05	10,8	57,3	48,0	728,0	90,7	532	19-out-05	11,6	54,9	48,0	757,0	90,7
323	17-out-05	6,5	62,0	67,0	789,0	83,8	428	19-out-05	8,4	55,9	48,0	721,0	90,7	533	19-out-05	12,4	57,0	48,0	782,0	90,7
324	17-out-05	6,1	64,1	67,0	781,0	83,8	429	19-out-05	9,3	55,9	48,0	687,0	83,4	534	19-out-05	11,6	55,5	48,0	792,0	90,7
325	17-out-05	6,4	75,8	67,0	480,0	98,4	430	19-out-05	9,8	55,6	48,0	669,0	90,7	535	19-out-05	11,4	61,3	48,0	811,0	90,7
326	17-out-05	17,1	53,6	62,0	610,0	83,7	431	19-out-05	10,3	56,3	48,0	650,0	90,7	536	19-out-05	13,6	57,3	48,0	765,0	96,0
327	17-out-05	8,5	80,1	61,0	865,0	83,9	432	19-out-05	9,5	55,7	48,0	661,0	90,7	537	19-out-05	10,8	55,0	48,0	803,0	96,0
328	17-out-05	6,9	76,6	61,0	852,0	83,9	433	19-out-05	9,3	53,6	48,0	660,0	90,7	538	19-out-05	12,6	57,9	48,0	764,0	95,2
329	19-out-05	10,0	69,7	48,0	862,0	83,4	434	19-out-05	9,1	55,9	48,0	641,0	90,7	539	19-out-05	13,1	59,7	48,0	803,0	95,2
330	19-out-05	9,9	70,7	48,0	861,0	83,4	435	19-out-05	9,8	55,7	48,0	660,0	90,7	540	19-out-05	13,8	59,1	48,0	811,0	95,2
331	19-out-05	9,9	70,3	48,0	861,0	83,4	436	19-out-05	11,2	55,0	48,0	600,0	90,7	541	19-out-05	12,7	59,3	48,0	823,0	95,2
332	19-out-05	9,9	72,9	48,0	859,0	83,4	437	19-out-05	9,1	53,0	48,0	596,0	90,7	542	19-out-05	13,6	57,9	48,0	815,0	95,2
333	19-out-05	10,7	71,6	48,0	962,0	83,8	438	19-out-05	9,0	52,2	48,0	556,0	90,7	543	19-out-05	12,8	56,8	48,0	859,0	90,7
334	19-out-05	11,0	72,0	48,0	854,0	83,4	439	19-out-05	12,8	50,2	48,0	487,0	90,7	544	19-out-05	11,9	60,3	48,0	857,0	90,7
335	19-out-05	12,1	71,2	48,0	861,0	83,4	440	19-out-05	33,5	49,9	48,0	419,0	90,7	545	19-out-05	13,5	57,6	48,0	862,0	90,7
336	19-out-05	10,4	70,0	48,0	857,0	83,4	441	19-out-05	32,1	46,3	48,0	415,0	72,1	546	19-out-05	13,1	57,2	48,0	862,0	90,7
337	19-out-05	11,0	71,2	48,0	866,0	83,4	442	19-out-05	33,1	48,3	48,0	469,0	72,1	547	19-out-05	16,1	55,7	48,0	829,0	97,0
338	19-out-05	11,7	73,3	48,0																

347	19-out-05	11,6	67,9	48,0	864,0	83,4	452	19-out-05	14,7	64,7	48,0	769,0	83,4	557	19-out-05	12,7	56,6	48,0	863,0	90,7
348	19-out-05	9,8	69,7	48,0	860,0	83,4	453	19-out-05	10,7	62,9	48,0	789,0	83,4	558	19-out-05	12,1	61,0	48,0	828,0	90,7
349	19-out-05	10,4	67,1	48,0	861,0	83,4	454	19-out-05	16,0	64,2	48,0	766,0	83,4	559	19-out-05	12,7	60,5	48,0	837,0	83,4
350	19-out-05	10,5	68,6	48,0	860,0	83,4	455	19-out-05	12,2	57,9	48,0	769,0	90,7	560	19-out-05	13,1	60,0	48,0	805,0	83,4
351	19-out-05	9,1	68,9	48,0	869,0	83,4	456	19-out-05	12,2	58,1	48,0	736,0	90,7	561	19-out-05	13,7	56,8	48,0	779,0	90,7
352	19-out-05	9,1	67,4	48,0	862,0	83,4	457	19-out-05	16,1	60,8	48,0	783,0	83,4	562	19-out-05	15,0	55,4	48,0	746,0	90,7
353	19-out-05	8,3	68,9	48,0	864,0	83,4	458	19-out-05	11,7	57,8	48,0	768,0	90,7	563	19-out-05	15,2	54,3	48,0	776,0	90,7
354	19-out-05	10,0	67,2	48,0	860,0	83,4	459	19-out-05	14,4	57,7	48,0	778,0	90,7	564	19-out-05	16,4	53,1	48,0	762,0	90,7
355	19-out-05	10,4	68,2	48,0	859,0	83,4	460	19-out-05	13,3	61,5	48,0	791,0	83,4	565	19-out-05	11,8	53,1	48,0	768,0	90,7
356	19-out-05	11,0	67,6	48,0	877,0	83,4	461	19-out-05	11,2	61,0	48,0	810,0	83,4	566	19-out-05	14,0	53,7	48,0	754,0	90,7
357	19-out-05	9,5	69,1	48,0	870,0	83,4	462	19-out-05	15,1	58,4	48,0	772,0	90,7	567	19-out-05	12,1	53,6	48,0	787,0	90,7
358	19-out-05	10,9	70,6	48,0	855,0	83,4	463	19-out-05	25,3	67,6	48,0	769,0	83,4	568	19-out-05	10,5	53,8	48,0	836,0	90,7
359	19-out-05	9,5	68,8	48,0	861,0	83,4	464	19-out-05	32,1	62,3	48,0	756,0	83,4	569	19-out-05	11,0	54,1	48,0	850,0	90,7
360	19-out-05	9,3	68,5	48,0	861,0	83,4	465	19-out-05	13,6	60,3	48,0	783,0	90,7	570	19-out-05	13,1	53,3	48,0	829,0	90,7
361	19-out-05	9,4	68,9	48,0	866,0	83,4	466	19-out-05	10,7	59,8	48,0	798,0	83,4	571	19-out-05	12,4	54,0	48,0	867,0	90,7
362	19-out-05	10,7	69,7	48,0	854,0	83,4	467	19-out-05	11,6	62,8	48,0	800,0	83,4	572	19-out-05	12,3	53,8	48,0	842,0	90,7
363	19-out-05	10,2	69,1	48,0	858,0	83,4	468	19-out-05	12,7	64,7	48,0	774,0	83,4	573	19-out-05	12,3	55,6	48,0	860,0	90,7
364	19-out-05	9,8	71,5	48,0	868,0	83,4	469	19-out-05	14,5	67,1	48,0	773,0	83,4	574	19-out-05	13,8	57,7	48,0	863,0	90,7
365	19-out-05	10,3	72,9	48,0	860,0	83,4	470	19-out-05	10,8	62,4	48,0	770,0	83,4	575	19-out-05	13,2	54,1	48,0	862,0	83,4
366	19-out-05	10,7	72,5	48,0	863,0	83,4	471	19-out-05	12,8	64,6	48,0	747,0	83,4	576	19-out-05	15,0	57,0	48,0	866,0	90,7
367	19-out-05	10,9	72,2	48,0	867,0	83,4	472	19-out-05	10,7	61,5	48,0	723,0	83,4	577	19-out-05	13,3	58,3	48,0	853,0	90,7
368	19-out-05	10,3	73,6	48,0	969,0	101,6	473	19-out-05	13,3	59,7	48,0	709,0	83,4	578	19-out-05	14,4	57,7	48,0	876,0	90,7
369	19-out-05	11,6	72,1	48,0	830,0	83,4	474	19-out-05	11,2	58,3	48,0	720,0	90,7	579	19-out-05	17,9	55,3	48,0	858,0	90,7
370	19-out-05	9,4	71,7	48,0	850,0	83,4	475	19-out-05	11,8	58,8	48,0	705,0	90,7	580	19-out-05	30,0	65,4	48,0	853,0	83,4
371	19-out-05	12,3	71,1	48,0	815,0	83,4	476	19-out-05	13,1	56,6	48,0	726,0	90,7	581	19-out-05	26,0	59,7	48,0	860,0	83,4
372	19-out-05	9,9	69,5	48,0	838,0	83,4	477	19-out-05	11,9	56,7	48,0	708,0	90,7	582	19-out-05	21,7	52,4	48,0	874,0	73,3
373	19-out-05	12,4	69,7	48,0	810,0	83,4	478	19-out-05	13,1	57,5	48,0	729,0	90,7	583	19-out-05	12,7	57,2	48,0	864,0	104,0
374	19-out-05	11,3	70,6	48,0	813,0	83,4	479	19-out-05	12,7	59,6	48,0	698,0	90,7	584	19-out-05	11,8	54,2	48,0	863,0	103,9
375	19-out-05	10,7	69,1	48,0	802,0	83,4	480	19-out-05	10,9	57,7	48,0	737,0	90,7	585	19-out-05	15,0	57,0	48,0	864,0	104,0
376	19-out-05	11,2	68,3	48,0	840,0	83,4	481	19-out-05	10,8	57,9	48,0	764,0	90,7	586	19-out-05	10,7	53,1	48,0	846,0	103,9
377	19-out-05	14,0	68,5	48,0	847,0	83,4	482	19-out-05	11,6	59,3	48,0	788,0	90,7	587	19-out-05	12,7	54,4	48,0	879,0	104,0
378	19-out-05	12,4	68,2	48,0	854,0	83,4	483	19-out-05	11,8	62,6	48,0	769,0	83,4	588	19-out-05	12,8	53,0	48,0	842,0	103,9
379	19-out-05	11,9	69,0	48,0	824,0	83,4	484	19-out-05	11,2	63,0	48,0	815,0	83,4	589	19-out-05	13,6	56,1	48,0	876,0	104,0
380	19-out-05	10,3	69,0	48,0	861,0	83,4	485	19-out-05	10,3	60,6	48,0	789,0	83,4	590	19-out-05	13,0	55,8	48,0	867,0	105,2
381	19-out-05	10,0	70,3	48,0	828,0	83,4	486	19-out-05	12,3	62,2	48,0	803,0	83,4	591	19-out-05	15,4	57,4	48,0	861,0	78,3
382	19-out-05	11,7	67,6	48,0	846,0	83,4	487	19-out-05	14,4	64,7	48,0	817,0	83,4	592	19-out-05	17,7	55,7	48,0	846,0	96,9
383	19-out-05	12,8	67,7	48,0	854,0	83,4	488	19-out-05	12,8	62,5	48,0	792,0	83,4	593	19-out-05	14,5	54,5	48,0	846,0	96,9
384	19-out-05	9,9	68,6	48,0	853,0	83,4	489	19-out-05	13,0	61,6	48,0	811,0	83,4	594	19-out-05	13,7	54,5	48,0	878,0	91,7
385	19-out-05	11,2	68,7	48,0	859,0	83,4	490	19-out-05	13,5	67,0	48,0	761,0	83,4	595	19-out-05	18,2	55,4	48,0	865,0	96,0
386	19-out-05	11,2	64,9	48,0	856,0	83,4	491	19-out-05	13,5	61,1	48,0	746,0	83,4	596	19-out-05	16,6	55,4	48,0	861,0	96,9
387	19-out-05	10,2	67,9	48,0	825,0	83,4	492	19-out-05	12,6	60,5	48,0	750,0	83,4	597	19-out-05	16,3	56,1	48,0	884,0	91,7
388	19-out-05	10,7	69,0	48,0	861,0	83,4	493	19-out-05	10,9	61,8	48,0	726,0	83,4	598	19-out-05	15,1	55,9	48,0	871,0	91,7
389	19-out-05	10,4	69,4	48,0	849,0	83,4	494	19-out-05	10,7	62,3	48,0	709,0	83,4	599	19-out-05	17,3	56,6	48,0	822,0	91,7
390	19-out-05	11,0	69,1	48,0	851,0	83,4	495	19-out-05	12,8	59,3	48,0	736,0	83,4	600	19-out-05	14,1	56,6	48,0	859,0	91,7
391	19-out-05	10,0	69,8	48,0	859,0	83,4	496	19-out-05	13,5	60,1	48,0	754,0	90,7	601	19-out-05	13,5	55,5	48,0	856,0	91,7
392	19-out-05	10,3	67,5	48,0	857,0	83,4	497	19-out-05	14,9	62,4	48,0	752,0	83,4	602	19-out-05	15,1	58,2	48,0	856,0	91,7
393	19-out-05	11,3	69,7	48,0	864,0	83,4	498	19-out-05	12,7	63,4	48,0	719,0	83,4	603	19-out-05	17,0	58,7	48,0	867,0	91,7
394	19-out-05	11,2	69,7	48,0	857,0	83,4	499	19-out-05	14,1	60,4	48,0	700,0	83,4	604	19-out-05	16,8	56,1	48,0	871,0	91,7
395	19-out-05	9,8	68,0	48,0	863,0	83,4	500	19-out-05	16,8	57,0	48,0	669,0	90,7	605	19-out-05	15,7	55,2	48,0	873,0	91,7
396	19-out-05	11,0	67,9	48,0	851,0	83,4	501	19-out-05	14,6	58,2	48,0	704,0	90,7	606	19-out-05	16,8	56,1	48,0	863,0	91,7
397	19-out-05	11,4	65,8	48,0	858,0	83,4	502	19-out-05	15,0	57,3	48,0	690,0	90,7	607	19-out-05	14,9	54,6	48,0	882,0	91,7
398	19-out-05	12,1	67,3	48,0	853,0	83,4	503	19-out-05	12,7	56,4	48,0	744,0	90,7	608	19-out-05	14,0	53,1	49,0	846,0	91,7
399	19-out-05	11,4	67,9	48,0	833,0	83,4	504	19-out-05	16,3	57,2	48,0	752,0	90,7	609	19-out-05	13,0	55,3	49,0	875,0	91,7
400	19-out-05	13,3	67,4	48,0	762,0	83,4	505	19-out-05	14,1	59,9	48,0	761,0	90,7	610	19-out-05	13,2	55,0	50,0	869,0	91,7
401	19-out-05	13,8	64,7	48,0	751,0	83,4	506	19-out-05	12,6	58,6	48,0	740,0	90,7	611	19-out-05	10,8	55,4	53,0	856,0	91,7
402	19-out-05	12,4	62,1	48,0	780,0	83,4	507	19-out-05	15,2	59,3	48,0	740,0	90,7	612	19-out-05	11,7	54,9	54,0	876,0	91,7
403	19-out-05	11,3	64,3	48,0	830,0	83,4	508	19-out-05	17,5	60,8	48,0	767,0	90,7	613	19-out-05	12,6	53,7	54,0	869,0	92,0
404	19-out-05	12,2	66,7	48,0	844,0	83,4	509	19-out-05	16,3	61,3	48,0	732,0	83,4	614	19-out-05	12,2	57,6	54,0	887,0	91,6
405	19-out-05	10,7	66,3	48,0	793,0	83,4	510	19-out-05	15,7	59,0	48,0	730,0	90,7	615	19-out-05	13,0	59,8	54,0	873,0	91,6
406	19-out-05	12,4	64,4	48,0	807,0	83,4	511	19-out-05	17,3	57,1	48,0	709,0	90,7	616	19-out-05	13,6	56,4	53,0	866,0	92,0
407	19-out-05	10,5	65,2	48,0	828,0	83,4	512	19-out-05	13,3	55,7	48,0	685,0	90,7	617	19-out-05	12,7	56,3	53,0	868,0	92,0
408	19-out-05	9,0	65,2	48,0	810,0	83,4	513	19-out-05	17,5	53,4	48,0	636,0	90							

628	19-out-05	13,5	58,5	51,0	876,0	91,6	733	19-out-05	11,8	52,6	48,0	866,0	70,8	838	19-out-05	16,1	57,1	51,0	884,0	67,1
629	19-out-05	14,4	59,2	51,0	876,0	91,6	734	19-out-05	13,6	53,6	48,0	900,0	71,1	839	19-out-05	17,7	54,8	51,0	758,0	67,7
630	19-out-05	14,1	58,5	51,0	886,0	91,6	735	19-out-05	10,2	53,2	48,0	892,0	71,1	840	19-out-05	12,6	55,7	51,0	900,0	61,5
631	19-out-05	13,8	59,8	51,0	877,0	91,6	736	19-out-05	11,3	53,1	48,0	905,0	71,1	841	19-out-05	11,0	53,8	51,0	896,0	58,4
632	19-out-05	15,4	60,0	51,0	885,0	91,6	737	19-out-05	11,0	52,8	48,0	847,0	71,1	842	19-out-05	11,0	51,7	51,0	753,0	55,4
633	19-out-05	11,2	60,5	51,0	868,0	91,6	738	19-out-05	11,2	53,2	48,0	860,0	70,9	843	19-out-05	10,8	51,6	51,0	870,0	60,0
634	19-out-05	17,8	59,5	51,0	855,0	91,6	739	19-out-05	10,7	56,1	48,0	848,0	71,3	844	19-out-05	9,7	55,8	51,0	887,0	58,7
635	19-out-05	14,9	57,7	51,0	886,0	91,6	740	19-out-05	10,3	51,4	48,0	829,0	70,8	845	19-out-05	10,8	52,8	51,0	867,0	58,8
636	19-out-05	14,7	57,7	51,0	866,0	91,6	741	19-out-05	10,4	52,2	48,0	927,0	70,8	846	19-out-05	11,3	51,7	51,0	886,0	59,0
637	19-out-05	14,6	56,7	51,0	864,0	91,6	742	19-out-05	10,7	52,0	48,0	828,0	70,8	847	19-out-05	8,5	52,7	51,0	875,0	59,0
638	19-out-05	14,6	56,9	51,0	882,0	91,6	743	19-out-05	11,7	53,0	48,0	890,0	70,8	848	19-out-05	10,7	57,7	51,0	896,0	59,0
639	19-out-05	18,0	64,5	51,0	865,0	91,6	744	19-out-05	10,2	53,2	48,0	909,0	70,8	849	19-out-05	7,7	56,8	51,0	907,0	59,0
640	19-out-05	29,1	64,0	51,0	851,0	91,6	745	19-out-05	12,2	53,1	48,0	909,0	70,8	850	19-out-05	7,6	56,1	51,0	889,0	59,0
641	19-out-05	27,7	69,0	51,0	861,0	91,6	746	19-out-05	10,0	49,9	48,0	848,0	70,8	851	19-out-05	8,0	57,4	51,0	902,0	59,0
642	19-out-05	28,7	71,1	51,0	873,0	92,5	747	19-out-05	10,7	54,7	48,0	844,0	70,8	852	19-out-05	6,9	55,3	51,0	816,0	59,0
643	19-out-05	28,7	68,7	51,0	873,0	54,0	748	19-out-05	10,0	54,4	48,0	898,0	70,8	853	19-out-05	6,9	54,0	51,0	874,0	59,8
644	19-out-05	22,4	57,4	51,0	881,0	89,4	749	19-out-05	10,2	52,5	48,0	892,0	70,8	854	19-out-05	7,6	52,3	51,0	872,0	65,4
645	19-out-05	15,9	57,3	51,0	884,0	74,3	750	19-out-05	11,9	54,7	48,0	906,0	70,8	855	19-out-05	15,7	54,8	51,0	808,0	67,9
646	19-out-05	14,5	60,4	50,0	861,0	74,3	751	19-out-05	12,8	51,8	48,0	903,0	70,8	856	19-out-05	10,3	53,1	51,0	885,0	62,0
647	19-out-05	16,6	62,8	50,0	883,0	77,2	752	19-out-05	11,9	53,5	48,0	830,0	70,8	857	19-out-05	9,3	53,7	51,0	879,0	56,5
648	19-out-05	18,2	58,3	50,0	891,0	72,7	753	19-out-05	10,8	54,2	48,0	890,0	70,8	858	19-out-05	6,9	56,1	51,0	888,0	58,6
649	19-out-05	8,4	58,3	50,0	899,0	72,7	754	19-out-05	10,8	49,7	48,0	853,0	70,8	859	19-out-05	7,2	55,5	51,0	898,0	59,1
650	19-out-05	7,4	57,3	50,0	896,0	76,5	755	19-out-05	12,8	53,4	48,0	892,0	71,6	860	19-out-05	8,4	54,8	51,0	866,0	58,9
651	19-out-05	7,4	56,4	50,0	896,0	79,0	756	19-out-05	9,8	52,7	49,0	922,0	80,6	861	19-out-05	6,7	57,9	51,0	905,0	58,9
652	19-out-05	9,5	56,1	49,0	871,0	81,4	757	19-out-05	13,5	51,0	50,0	872,0	84,9	862	19-out-05	7,2	54,9	51,0	932,0	58,9
653	19-out-05	7,5	58,0	49,0	879,0	84,6	758	19-out-05	15,1	51,4	52,0	810,0	91,3	863	19-out-05	6,9	55,4	51,0	929,0	58,1
654	19-out-05	8,6	56,8	49,0	852,0	84,9	759	19-out-05	13,5	53,2	53,0	853,0	89,5	864	19-out-05	7,1	55,0	51,0	855,0	58,6
655	19-out-05	8,3	58,2	49,0	886,0	84,8	760	19-out-05	13,0	52,2	54,0	813,0	85,2	865	19-out-05	7,7	54,7	51,0	859,0	59,8
656	19-out-05	8,0	54,9	49,0	861,0	84,9	761	19-out-05	14,6	53,8	54,0	868,0	86,0	866	19-out-05	10,3	52,9	51,0	874,0	59,8
657	19-out-05	7,7	56,1	49,0	879,0	85,1	762	19-out-05	14,1	52,9	55,0	920,0	86,0	867	19-out-05	8,3	52,1	51,0	856,0	61,4
658	19-out-05	9,3	56,9	49,0	865,0	85,1	763	19-out-05	13,7	52,5	55,0	810,0	86,0	868	19-out-05	11,2	58,4	51,0	906,0	60,3
659	19-out-05	9,3	56,2	49,0	857,0	84,6	764	19-out-05	19,1	52,2	55,0	877,0	86,0	869	19-out-05	8,8	50,7	51,0	850,0	60,8
660	19-out-05	7,7	55,4	49,0	857,0	84,7	765	19-out-05	13,5	52,2	55,0	830,0	86,0	870	19-out-05	10,9	52,7	51,0	887,0	61,7
661	19-out-05	10,0	58,0	49,0	887,0	84,7	766	19-out-05	17,0	55,0	56,0	842,0	86,0	871	19-out-05	10,4	54,0	51,0	882,0	61,2
662	19-out-05	8,8	58,3	49,0	825,0	84,6	767	19-out-05	16,5	54,3	56,0	858,0	86,0	872	19-out-05	7,7	50,9	51,0	880,0	61,6
663	19-out-05	8,4	58,5	49,0	881,0	84,7	768	19-out-05	17,9	56,4	57,0	901,0	86,0	873	19-out-05	8,9	53,9	51,0	795,0	62,3
664	19-out-05	8,3	56,0	49,0	863,0	84,7	769	19-out-05	14,4	52,8	58,0	860,0	86,0	874	19-out-05	11,8	55,5	51,0	869,0	62,1
665	19-out-05	9,1	57,0	49,0	884,0	85,0	770	19-out-05	14,1	55,1	58,0	878,0	86,0	875	19-out-05	11,3	55,9	51,0	893,0	65,4
666	19-out-05	7,6	55,3	49,0	876,0	84,9	771	19-out-05	16,8	52,9	59,0	859,0	86,0	876	19-out-05	13,1	55,7	51,0	895,0	64,9
667	19-out-05	9,7	56,8	49,0	857,0	84,9	772	19-out-05	14,0	54,4	59,0	887,0	86,0	877	19-out-05	13,0	55,4	51,0	872,0	65,9
668	19-out-05	11,0	57,5	49,0	888,0	85,0	773	19-out-05	16,0	53,1	60,0	930,0	86,0	878	19-out-05	13,5	55,1	51,0	876,0	65,8
669	19-out-05	11,0	57,0	49,0	888,0	100,2	774	19-out-05	14,7	54,3	60,0	828,0	86,0	879	19-out-05	10,7	53,5	51,0	860,0	66,0
670	19-out-05	9,4	57,5	49,0	885,0	100,4	775	19-out-05	16,3	54,7	60,0	889,0	86,1	880	19-out-05	11,7	51,4	51,0	815,0	66,4
671	19-out-05	11,6	57,8	49,0	893,0	100,4	776	19-out-05	17,0	53,6	60,0	810,0	86,0	881	19-out-05	12,3	53,7	51,0	866,0	66,7
672	19-out-05	10,9	58,9	49,0	864,0	100,4	777	19-out-05	15,5	53,0	60,0	894,0	86,0	882	19-out-05	14,6	52,5	51,0	780,0	66,3
673	19-out-05	11,6	58,1	48,0	870,0	100,4	778	19-out-05	14,0	53,0	60,0	888,0	86,0	883	19-out-05	13,2	55,6	51,0	886,0	66,3
674	19-out-05	11,6	58,1	48,0	870,0	100,4	779	19-out-05	15,4	55,8	60,0	885,0	86,0	884	19-out-05	12,6	56,1	51,0	769,0	66,3
675	19-out-05	12,6	57,6	49,0	953,0	100,5	780	19-out-05	14,6	53,3	60,0	876,0	86,0	885	19-out-05	9,0	54,0	51,0	876,0	66,3
676	19-out-05	12,6	57,6	49,0	953,0	100,5	781	19-out-05	15,4	54,0	59,0	845,0	86,0	886	19-out-05	7,7	52,0	51,0	829,0	66,3
677	19-out-05	14,0	59,0	49,0	880,0	100,6	782	19-out-05	13,1	54,3	58,0	835,0	86,3	887	19-out-05	8,6	51,0	51,0	857,0	66,3
678	19-out-05	14,0	59,0	49,0	880,0	100,6	783	19-out-05	13,8	58,0	57,0	880,0	87,3	888	19-out-05	7,5	52,0	51,0	893,0	66,3
679	19-out-05	13,1	58,8	48,0	870,0	101,3	784	19-out-05	14,2	54,1	57,0	841,0	90,6	889	19-out-05	8,1	52,5	51,0	877,0	66,3
680	19-out-05	14,1	58,8	48,0	897,0	101,3	785	19-out-05	14,4	55,0	56,0	889,0	90,6	890	19-out-05	8,9	50,9	51,0	807,0	66,3
681	19-out-05	15,6	54,4	48,0	877,0	101,3	786	19-out-05	15,5	53,8	56,0	892,0	90,6	891	19-out-05	7,9	51,3	51,0	810,0	66,3
682	19-out-05	18,2	57,6	48,0	875,0	60,0	787	19-out-05	12,6	53,8	55,0	891,0	90,6	892	19-out-05	8,4	55,1	51,0	853,0	66,3
683	19-out-05	18,2	56,5	48,0	877,0	69,5	788	19-out-05	12,1	53,6	54,0	893,0	90,6	893	19-out-05	14,1	56,2	51,0	804,0	66,3
684	19-out-05	14,6	55,4	48,0	844,0	98,0	789	19-out-05	14,6	53,5	54,0	863,0	90,6	894	19-out-05	16,0	55,2	51,0	802,0	66,3
685	19-out-05	15,2	55,1	48,0	875,0	98,0	790	19-out-05	13,8	57,8	53,0	836,0	90,6	895	19-out-05	15,1	50,9	51,0	779,0	66,3
686	19-out-05	15,2	56,0	48,0	875,0	98,2	791	19-out-05	10,2	54,6	52,0	889,0	90,3	896	19-out-05	15,5	56,5	51,0	879,0	66,3
687	19-out-05	16,8	54,4	48,0	878,0	97,5	792	19-out-05	13,0	56,0	52,0	894,0	90,5	897	19-out-05	14,7	54,3	51,0	835,0	66,3
688	19-out-05	14,1	55,4	48,0	843,0	94,6	793	19-out-05	12,8	55,1	52,0	873,0	90,4	898	19-out-05	14,0	53,6	51,0	864,0	66,3
689	19-out-05	15,0	59,0	48,0	883,0	95,9	794	19-out-05	12,7	56,9	51,0	866,0	90,6	899	19-out-05	13,1				

699	19-out-05	23,9	57,3	48,0	850,0	79,3	804	19-out-05	12,8	57,4	51,0	895,0	90,7	909	19-out-05	14,5	55,8	51,0	900,0	65,6
700	19-out-05	23,1	61,8	48,0	900,0	79,3	805	19-out-05	11,4	57,5	51,0	888,0	90,8	910	19-out-05	15,0	55,6	51,0	817,0	65,3
701	19-out-05	21,8	58,3	48,0	874,0	79,3	806	19-out-05	11,6	55,2	51,0	890,0	90,7	911	19-out-05	18,3	62,7	51,0	839,0	62,9
702	19-out-05	20,7	55,4	48,0	870,0	79,2	807	19-out-05	14,0	55,7	51,0	887,0	94,5	912	19-out-05	12,6	60,3	51,0	879,0	62,7
703	19-out-05	20,7	55,2	48,0	870,0	76,6	808	19-out-05	11,2	54,2	51,0	884,0	89,9	913	19-out-05	15,0	61,0	51,0	834,0	62,8
704	19-out-05	12,2	54,1	48,0	843,0	76,6	809	19-out-05	10,3	53,7	51,0	826,0	91,4	914	19-out-05	15,4	60,9	51,0	900,0	62,8
705	19-out-05	12,4	54,1	48,0	879,0	76,6	810	19-out-05	11,2	55,9	51,0	882,0	91,4	915	19-out-05	13,7	62,6	51,0	866,0	62,8
706	19-out-05	12,8	54,6	48,0	884,0	76,6	811	19-out-05	9,0	54,3	51,0	885,0	91,4	916	19-out-05	14,4	62,7	51,0	878,0	62,8
707	19-out-05	10,7	53,7	48,0	844,0	77,0	812	19-out-05	13,5	57,1	51,0	853,0	93,7	917	19-out-05	16,1	60,3	51,0	824,0	62,9
708	19-out-05	11,0	53,7	48,0	906,0	77,0	813	19-out-05	11,0	54,1	50,0	889,0	96,1	918	19-out-05	12,6	63,6	51,0	880,0	62,9
709	19-out-05	8,6	53,6	48,0	864,0	76,6	814	19-out-05	10,5	56,7	51,0	827,0	94,9	919	19-out-05	15,2	64,7	51,0	876,0	62,9
710	19-out-05	11,4	54,2	48,0	863,0	77,6	815	19-out-05	12,7	55,0	51,0	894,0	96,9	920	19-out-05	13,2	63,2	51,0	877,0	62,9
711	19-out-05	11,3	54,7	48,0	888,0	78,7	816	19-out-05	10,2	54,1	51,0	874,0	97,3	921	19-out-05	17,0	59,4	51,0	875,0	62,9
712	19-out-05	10,7	54,1	48,0	865,0	78,7	817	19-out-05	12,2	53,9	50,0	841,0	96,7	922	19-out-05	17,7	63,3	51,0	846,0	62,9
713	19-out-05	9,5	52,3	48,0	902,0	79,0	818	19-out-05	10,9	56,2	51,0	829,0	96,7	923	19-out-05	11,4	64,9	51,0	897,0	62,9
714	19-out-05	9,5	52,6	48,0	902,0	78,8	819	19-out-05	11,8	55,1	51,0	865,0	97,2	924	19-out-05	9,7	59,3	51,0	846,0	62,8
715	19-out-05	11,8	52,6	48,0	876,0	78,9	820	19-out-05	11,8	54,9	51,0	892,0	98,4	925	19-out-05	10,9	61,3	51,0	823,0	62,9
716	19-out-05	11,8	53,8	48,0	876,0	79,0	821	19-out-05	10,3	54,2	51,0	875,0	98,2	926	19-out-05	10,5	64,0	51,0	857,0	62,9
717	19-out-05	12,3	52,0	48,0	856,0	76,8	822	19-out-05	12,6	54,4	51,0	839,0	98,2	927	19-out-05	8,9	57,9	51,0	882,0	62,9
718	19-out-05	12,3	53,8	48,0	856,0	75,9	823	19-out-05	20,7	58,1	51,0	855,0	99,8	928	19-out-05	8,4	60,4	51,0	856,0	62,8
719	19-out-05	12,3	55,3	48,0	878,0	77,7	824	19-out-05	26,4	55,4	51,0	810,0	81,3	929	19-out-05	7,4	59,4	51,0	883,0	62,9
720	19-out-05	12,3	53,7	48,0	884,0	74,0	825	19-out-05	19,8	55,4	51,0	892,0	75,0	930	19-out-05	7,6	56,5	51,0	872,0	78,7
721	19-out-05	11,9	54,1	48,0	842,0	76,0	826	19-out-05	13,0	56,2	51,0	901,0	66,3	931	19-out-05	9,7	59,4	51,0	867,0	92,0
722	19-out-05	12,8	52,7	48,0	827,0	76,6	827	19-out-05	17,8	60,3	51,0	905,0	64,2	932	19-out-05	12,3	55,1	52,0	850,0	101,8
723	19-out-05	10,9	53,9	48,0	871,0	73,1	828	19-out-05	18,4	53,2	51,0	911,0	67,5	933	19-out-05	13,6	54,8	52,0	861,0	102,0
724	19-out-05	11,3	53,0	48,0	887,0	74,1	829	19-out-05	15,2	54,0	51,0	838,0	63,3	934	19-out-05	13,8	56,5	52,0	866,0	102,7
725	19-out-05	15,0	53,9	48,0	895,0	73,3	830	19-out-05	14,1	58,6	51,0	891,0	65,8	935	19-out-05	10,9	57,8	52,0	874,0	103,7
726	19-out-05	14,0	53,9	48,0	915,0	73,3	831	19-out-05	15,7	54,2	51,0	879,0	67,4	936	19-out-05	12,1	55,3	52,0	853,0	104,2
727	19-out-05	12,4	52,7	48,0	919,0	70,6	832	19-out-05	11,6	56,1	51,0	880,0	64,5	937	19-out-05	9,7	56,3	52,0	881,0	103,7
728	19-out-05	11,3	52,2	48,0	830,0	72,4	833	19-out-05	12,8	57,5	51,0	791,0	64,6	938	19-out-05	9,9	52,8	52,0	877,0	93,5
729	19-out-05	11,8	54,4	48,0	869,0	69,6	834	19-out-05	12,7	53,6	51,0	859,0	64,1	939	19-out-05	10,0	61,4	52,0	837,0	71,3
940	19-out-05	12,3	58,9	52,0	851,0	90,7	1045	19-out-05	16,0	56,2	53,0	887,0	66,0	1150	20-out-05	5,5	68,8	49,0	853,0	85,8
941	19-out-05	11,6	57,4	52,0	872,0	90,7	1046	19-out-05	17,7	59,5	53,0	883,0	66,3	1151	20-out-05	4,3	61,3	49,0	883,0	85,8
942	19-out-05	13,6	58,3	52,0	857,0	90,7	1047	19-out-05	16,6	60,2	53,0	718,0	65,2	1152	20-out-05	4,7	55,2	49,0	886,0	85,8
943	19-out-05	11,9	57,8	52,0	853,0	90,7	1048	19-out-05	16,1	59,6	53,0	892,0	63,5	1153	20-out-05	8,3	63,2	49,0	908,0	85,4
944	19-out-05	21,6	69,9	52,0	859,0	83,4	1049	19-out-05	13,1	56,9	53,0	909,0	64,1	1154	20-out-05	5,5	69,1	49,0	864,0	85,8
945	19-out-05	32,5	61,4	52,0	854,0	60,5	1050	19-out-05	11,8	56,4	53,0	839,0	61,5	1155	20-out-05	4,3	62,5	49,0	880,0	85,8
946	19-out-05	24,9	52,1	52,0	876,0	69,8	1051	19-out-05	13,3	58,6	53,0	876,0	63,2	1156	20-out-05	4,6	60,2	49,0	883,0	85,8
947	19-out-05	16,9	66,8	52,0	892,0	75,4	1052	19-out-05	15,0	54,3	53,0	842,0	63,3	1157	20-out-05	5,6	71,2	49,0	890,0	85,8
948	19-out-05	16,6	57,1	52,0	887,0	73,6	1053	19-out-05	16,4	60,5	53,0	882,0	63,5	1158	20-out-05	5,8	65,0	49,0	888,0	85,8
949	19-out-05	14,5	58,3	52,0	890,0	64,7	1054	19-out-05	15,6	56,7	53,0	805,0	63,7	1159	20-out-05	4,6	66,7	49,0	878,0	85,8
950	19-out-05	14,9	57,4	52,0	883,0	66,8	1055	19-out-05	15,2	57,3	53,0	914,0	64,9	1160	20-out-05	4,8	72,7	49,0	830,0	85,8
951	19-out-05	17,0	59,1	52,0	837,0	68,2	1056	19-out-05	15,7	60,0	53,0	866,0	65,2	1161	20-out-05	5,2	61,0	49,0	879,0	85,8
952	19-out-05	15,7	56,6	52,0	907,0	68,0	1057	19-out-05	15,6	59,8	53,0	895,0	65,6	1162	20-out-05	4,8	64,2	49,0	893,0	85,8
953	19-out-05	14,7	58,4	52,0	851,0	66,5	1058	19-out-05	13,5	59,3	53,0	895,0	62,6	1163	20-out-05	4,7	69,6	49,0	900,0	85,8
954	19-out-05	14,9	57,8	51,0	851,0	66,5	1059	19-out-05	13,6	59,2	53,0	835,0	62,6	1164	20-out-05	4,4	69,6	49,0	875,0	85,8
955	19-out-05	16,4	56,9	51,0	879,0	66,4	1060	19-out-05	13,1	59,0	53,0	905,0	62,5	1165	20-out-05	4,3	59,1	49,0	861,0	85,8
956	19-out-05	16,3	58,0	51,0	867,0	65,7	1061	19-out-05	13,5	59,0	53,0	920,0	60,9	1166	20-out-05	5,5	58,0	49,0	893,0	85,8
957	19-out-05	14,7	61,1	51,0	886,0	65,8	1062	19-out-05	13,5	53,8	53,0	854,0	59,9	1167	20-out-05	5,2	63,7	49,0	888,0	85,8
958	19-out-05	19,4	60,9	51,0	857,0	65,7	1063	19-out-05	14,9	53,2	53,0	835,0	62,4	1168	20-out-05	3,8	74,0	49,0	892,0	85,8
959	19-out-05	16,3	58,9	51,0	891,0	66,2	1064	19-out-05	14,4	51,0	53,0	878,0	61,3	1169	20-out-05	4,8	66,1	49,0	881,0	85,8
960	19-out-05	16,8	56,8	51,0	886,0	65,9	1065	19-out-05	14,7	57,8	53,0	907,0	62,1	1170	20-out-05	4,7	55,0	49,0	806,0	85,8
961	19-out-05	15,5	54,9	52,0	838,0	65,7	1066	19-out-05	15,4	55,1	53,0	897,0	62,1	1171	20-out-05	5,0	61,0	49,0	887,0	85,8
962	19-out-05	19,8	57,4	52,0	855,0	66,2	1067	19-out-05	15,5	55,9	53,0	893,0	62,1	1172	20-out-05	4,6	62,9	49,0	887,0	85,8
963	19-out-05	17,0	62,9	52,0	862,0	65,6	1068	19-out-05	15,5	56,5	53,0	875,0	62,3	1173	20-out-05	4,3	68,3	49,0	900,0	85,8
964	19-out-05	18,5	57,5	52,0	858,0	63,4	1069	19-out-05	15,9	58,1	54,0	856,0	62,2	1174	20-out-05	4,3	60,2	49,0	815,0	85,2
965	19-out-05	18,5	62,2	52,0	847,0	63,7	1070	19-out-05	13,8	58,5	54,0	894,0	61,6	1175	20-out-05	4,6	58,2	49,0	902,0	85,8
966	19-out-05	15,1	63,6	52,0	877,0	64,8	1071	19-out-05	13,5	58,1	54,0	905,2	68,8	1176	20-out-05	3,9	53,1	49,0	886,0	85,8
967	19-out-05	16,5	64,4	52,0	869,0	64,9	1072	19-out-05	14,0	55,8	54,0	837,0	60,3	1177	20-out-05	5,7	61,4	49,0	884,0	85,8
968	19-out-05	19,9	61,8	52,0	828,0	62,2	1073	19-out-05	14,7	56,5	54,0	899,0	59,4	1178	20-out-05	3,9	64,7	49,0	915,0	85,8
969	19-out-05	17,8	59,2	52,0	871,0	63,8	1074	19-out-05	13,5	54,7	54,0	901,0	59,0	1179	20-out-05	4,4	60,4	49,0	902,0	85,8
970	19-out-05	21,0	62,5	52,0	869,0	63,7	1075	19-out-05	14,2	5										

980	19-out-05	19,1	59,6	52,0	883,0	62,5	1085	20-out-05	5,2	59,9	49,0	894,0	85,8	1190	20-out-05	4,7	60,3	49,0	888,0	85,8
981	19-out-05	16,5	57,8	51,0	852,0	62,6	1086	20-out-05	4,8	59,3	49,0	880,0	85,8	1191	20-out-05	5,0	61,6	50,0	887,0	85,8
982	19-out-05	14,7	59,8	51,0	864,0	61,7	1087	20-out-05	4,7	72,2	49,0	889,0	85,8	1192	20-out-05	4,3	59,5	50,0	891,0	85,8
983	19-out-05	16,1	60,4	51,0	804,0	61,8	1088	20-out-05	4,2	59,9	49,0	835,0	85,8	1193	20-out-05	4,6	76,2	50,0	888,0	85,8
984	19-out-05	16,9	60,3	51,0	883,0	63,2	1089	20-out-05	6,1	62,5	49,0	987,0	88,0	1194	20-out-05	4,4	65,1	50,0	889,0	85,8
985	19-out-05	16,0	58,7	51,0	781,0	60,2	1090	20-out-05	5,1	66,0	49,0	898,0	85,8	1195	20-out-05	4,3	63,1	51,0	849,0	85,8
986	19-out-05	17,5	60,9	51,0	887,0	61,9	1091	20-out-05	4,6	67,1	49,0	884,0	85,8	1196	20-out-05	4,6	64,6	52,0	889,0	85,8
987	19-out-05	16,1	57,8	51,0	817,0	62,5	1092	20-out-05	5,1	60,1	49,0	886,0	85,8	1197	20-out-05	5,2	66,5	52,0	903,0	85,8
988	19-out-05	17,0	62,9	51,0	842,0	62,7	1093	20-out-05	5,6	56,3	49,0	870,0	85,8	1198	20-out-05	3,7	64,7	52,0	856,0	85,8
989	19-out-05	18,2	58,3	52,0	784,0	62,6	1094	20-out-05	5,3	55,4	49,0	884,0	85,8	1199	20-out-05	4,7	65,3	52,0	888,0	85,8
990	19-out-05	19,7	60,0	52,0	893,0	62,6	1095	20-out-05	5,8	65,0	49,0	894,0	85,8	1200	20-out-05	4,8	63,5	52,0	882,0	85,8
991	19-out-05	19,7	58,9	52,0	861,0	62,5	1096	20-out-05	4,8	55,5	49,0	861,0	85,8	1201	20-out-05	4,1	63,5	53,0	832,0	85,8
992	19-out-05	16,6	60,9	52,0	840,0	61,7	1097	20-out-05	5,5	60,9	49,0	889,0	85,8	1202	20-out-05	4,2	60,4	53,0	870,0	85,8
993	19-out-05	16,8	58,3	52,0	876,0	62,1	1098	20-out-05	4,8	55,1	49,0	887,0	85,8	1203	20-out-05	4,3	69,8	53,0	881,0	85,8
994	19-out-05	17,4	61,9	52,0	876,0	64,0	1099	20-out-05	4,6	53,8	49,0	868,0	85,8	1204	20-out-05	4,1	63,2	53,0	856,0	85,8
995	19-out-05	16,8	56,6	52,0	892,0	64,1	1100	20-out-05	4,2	66,9	49,0	873,0	85,8	1205	20-out-05	3,8	62,5	53,0	882,0	85,8
996	19-out-05	17,0	58,1	52,0	854,0	64,2	1101	20-out-05	4,3	60,7	49,0	862,0	85,8	1206	20-out-05	4,8	65,9	53,0	900,0	85,8
997	19-out-05	17,4	63,5	52,0	913,0	63,8	1102	20-out-05	5,0	59,7	49,0	884,0	85,8	1207	20-out-05	4,4	61,7	53,0	882,0	85,8
998	19-out-05	16,1	58,8	52,0	900,0	63,8	1103	20-out-05	4,3	55,0	49,0	876,0	85,8	1208	20-out-05	4,6	67,0	52,0	887,0	85,8
999	19-out-05	16,0	55,7	52,0	857,0	61,7	1104	20-out-05	4,7	52,8	49,0	898,0	85,8	1209	20-out-05	4,2	68,0	52,0	891,0	85,8
1000	19-out-05	17,1	61,1	52,0	877,0	63,4	1105	20-out-05	5,1	63,8	49,0	901,0	85,8	1210	20-out-05	4,3	70,2	52,0	857,0	85,8
1001	19-out-05	14,7	62,4	52,0	886,0	63,4	1106	20-out-05	4,1	55,6	49,0	888,0	85,8	1211	20-out-05	4,8	64,8	52,0	871,0	85,8
1002	19-out-05	14,1	61,6	52,0	912,0	63,4	1107	20-out-05	4,7	64,5	49,0	890,0	85,8	1212	20-out-05	4,6	58,4	52,0	862,0	85,8
1003	19-out-05	12,4	57,7	52,0	895,0	63,4	1108	20-out-05	5,3	54,1	49,0	891,0	85,8	1213	20-out-05	4,4	73,0	52,0	887,0	85,8
1004	19-out-05	14,5	56,1	52,0	917,0	63,4	1109	20-out-05	3,8	58,9	49,0	891,0	85,8	1214	20-out-05	4,1	73,1	52,0	881,0	85,8
1005	19-out-05	14,4	56,7	52,0	902,0	63,4	1110	20-out-05	5,1	64,3	49,0	869,0	85,8	1215	20-out-05	4,3	65,4	52,0	823,0	85,8
1006	19-out-05	12,7	55,6	52,0	839,0	63,4	1111	20-out-05	4,3	53,9	49,0	882,0	85,8	1216	20-out-05	4,1	66,0	52,0	825,0	85,8
1007	19-out-05	13,2	59,0	52,0	906,0	63,4	1112	20-out-05	5,0	58,2	49,0	898,0	85,8	1217	20-out-05	3,8	58,8	52,0	900,0	85,8
1008	19-out-05	15,9	54,9	52,0	827,0	63,4	1113	20-out-05	4,4	60,4	49,0	884,0	85,8	1218	20-out-05	4,3	72,8	52,0	883,0	85,8
1009	19-out-05	14,6	59,9	52,0	790,0	63,4	1114	20-out-05	4,1	54,0	49,0	855,0	85,8	1219	20-out-05	3,7	69,9	52,0	900,0	85,8
1010	19-out-05	18,5	58,6	52,0	826,0	63,4	1115	20-out-05	4,4	54,7	49,0	889,0	85,8	1220	20-out-05	8,3	59,3	52,0	824,0	85,8
1011	19-out-05	17,1	59,3	52,0	894,0	63,4	1116	20-out-05	5,3	56,4	49,0	886,0	85,8	1221	20-out-05	4,8	59,4	52,0	853,0	85,8
1012	19-out-05	15,0	59,0	52,0	892,0	64,2	1117	20-out-05	5,3	60,8	49,0	886,0	85,8	1222	20-out-05	5,1	65,9	52,0	897,0	85,8
1013	19-out-05	14,4	60,6	52,0	717,0	64,8	1118	20-out-05	4,1	61,1	49,0	876,0	85,8	1223	20-out-05	3,9	70,6	52,0	886,0	85,8
1014	19-out-05	14,9	54,9	52,0	826,0	64,5	1119	20-out-05	4,6	57,3	49,0	852,0	85,8	1224	20-out-05	3,7	73,5	52,0	879,0	85,8
1015	19-out-05	13,6	57,8	52,0	904,0	64,8	1120	20-out-05	3,7	57,8	49,0	891,0	85,8	1225	20-out-05	8,3	65,0	52,0	849,0	85,8
1016	19-out-05	11,4	59,4	52,0	892,0	64,5	1121	20-out-05	4,2	57,8	49,0	886,0	85,8	1226	20-out-05	4,1	60,7	52,0	827,0	85,8
1017	19-out-05	13,5	59,7	52,0	886,0	65,7	1122	20-out-05	4,8	61,8	49,0	892,0	85,8	1227	20-out-05	6,0	66,3	52,0	885,0	85,8
1018	19-out-05	17,1	59,6	52,0	867,0	66,1	1123	20-out-05	4,3	56,4	49,0	886,0	85,8	1228	20-out-05	3,8	72,3	52,0	886,0	85,8
1019	19-out-05	17,1	62,1	52,0	917,0	66,3	1124	20-out-05	4,8	57,2	49,0	896,0	85,8	1229	20-out-05	3,3	75,1	51,0	866,0	85,8
1020	19-out-05	16,0	58,9	52,0	838,0	66,3	1125	20-out-05	5,2	57,0	49,0	895,0	85,8	1230	20-out-05	5,6	62,7	51,0	846,0	85,8
1021	19-out-05	16,4	58,5	52,0	903,0	66,3	1126	20-out-05	4,4	57,9	49,0	902,0	85,8	1231	20-out-05	4,3	64,6	52,0	888,0	85,8
1022	19-out-05	14,9	59,3	52,0	841,0	66,5	1127	20-out-05	4,7	53,7	49,0	903,0	85,8	1232	20-out-05	3,9	71,7	52,0	890,0	85,8
1023	19-out-05	14,2	59,0	52,0	846,0	66,3	1128	20-out-05	4,8	57,4	49,0	900,0	85,8	1233	20-out-05	3,3	70,5	51,0	860,0	85,8
1024	19-out-05	15,5	55,9	52,0	876,0	66,3	1129	20-out-05	5,1	64,9	49,0	888,0	85,8	1234	20-out-05	3,7	64,5	52,0	905,0	85,8
1025	19-out-05	17,3	59,3	52,0	927,0	66,3	1130	20-out-05	4,4	59,3	49,0	889,0	85,8	1235	20-out-05	4,1	58,1	52,0	820,0	85,8
1026	19-out-05	15,0	64,2	52,0	894,0	66,5	1131	20-out-05	4,2	58,9	49,0	904,0	85,8	1236	20-out-05	4,1	63,7	51,0	889,0	85,8
1027	19-out-05	15,1	59,4	52,0	913,0	66,3	1132	20-out-05	4,7	58,2	49,0	817,0	85,8	1237	20-out-05	4,7	70,8	51,0	839,0	85,8
1028	19-out-05	15,0	61,2	52,0	891,0	66,3	1133	20-out-05	4,3	65,6	49,0	907,0	85,8	1238	20-out-05	4,2	66,0	52,0	906,0	85,8
1029	19-out-05	14,9	56,8	52,0	853,0	66,3	1134	20-out-05	4,3	59,2	49,0	860,0	85,8	1239	20-out-05	3,9	61,0	51,0	906,0	85,8
1030	19-out-05	16,0	59,8	52,0	916,0	66,3	1135	20-out-05	4,3	61,7	49,0	823,0	85,8	1240	20-out-05	4,4	75,0	51,0	957,0	81,1
1031	19-out-05	15,0	60,8	52,0	813,0	66,3	1136	20-out-05	4,3	52,3	49,0	881,0	85,2	1241	20-out-05	3,7	66,8	51,0	803,0	85,8
1032	19-out-05	17,1	62,1	52,0	778,0	66,3	1137	20-out-05	4,7	57,0	49,0	890,0	85,8	1242	20-out-05	3,8	68,6	51,0	863,0	85,8
1033	19-out-05	18,4	62,3	52,0	906,0	66,3	1138	20-out-05	4,4	58,8	49,0	886,0	85,8	1243	20-out-05	4,8	66,6	51,0	881,0	85,8
1034	19-out-05	17,0	58,1	52,0	920,0	66,6	1139	20-out-05	4,3	55,2	49,0	842,0	85,8	1244	20-out-05	4,3	62,0	51,0	890,0	85,8
1035	19-out-05	13,7	61,1	52,0	867,0	66,5	1140	20-out-05	3,9	55,7	49,0	888,0	85,8	1245	20-out-05	3,9	62,4	51,0	878,0	85,8
1036	19-out-05	15,7	57,4	52,0	696,0	67,9	1141	20-out-05	4,4	59,4	49,0	844,0	85,8	1246	20-out-05	4,1	65,7	51,0	888,0	85,8
1037	19-out-05	13,0	58,3	52,0	710,0	65,8	1142	20-out-05	5,0	61,3	49,0	892,0	85,8	1247	20-out-05	4,7	66,0	51,0	891,0	85,8
1038	19-out-05	18,2	60,5	52,0	851,0	66,1	1143	20-out-05	3,9	62,5	49,0	882,0	85,8	1248	20-out-05	4,4	59,9	51,0	800,0	85,8
1039	19-out-05	18,9	56,8	53,0	878,0	66,3	1144	20-out-05	5,6	67,2	49,0	903,0	85,8	1249	20-out-05	4,1	53,7	51,0	884,0	85,8
1040	19-out-05	15,4	62,3	53,0	893,0	66,3	1145	20-out-05	4,7	64,5	49,0	878,0	85,8	1250	20-out-05	3,9	70,1	51,0	982,0	77,0
1041	19-out-05	16,3	62,2	52,0	865,0	66,7	1146	20-out												

1261	20-out-05	3,9	65,1	51,0	883,0	85,8	1366	20-out-05	4,6	61,3	49,0	900,0	85,8	1471	20-out-05	4,4	57,0	48,0	900,0	85,8
1262	20-out-05	4,4	59,9	51,0	900,0	85,8	1367	20-out-05	5,2	59,4	49,0	898,0	85,8	1472	20-out-05	4,3	53,6	48,0	886,0	85,8
1263	20-out-05	4,1	60,0	51,0	890,0	85,8	1368	20-out-05	5,2	62,3	49,0	892,0	85,8	1473	20-out-05	5,2	54,5	48,0	865,0	85,8
1264	20-out-05	4,1	57,6	51,0	905,0	85,8	1369	20-out-05	4,7	60,7	49,0	848,0	85,8	1474	20-out-05	4,8	53,1	48,0	903,0	85,8
1265	20-out-05	4,4	77,3	51,0	860,0	85,8	1370	20-out-05	5,1	59,6	49,0	898,0	85,8	1475	20-out-05	3,8	62,4	48,0	839,0	85,8
1266	20-out-05	4,4	56,4	51,0	860,0	85,8	1371	20-out-05	5,0	60,8	49,0	900,0	85,8	1476	20-out-05	4,3	55,5	48,0	894,0	85,8
1267	20-out-05	4,4	67,4	51,0	898,0	85,8	1372	20-out-05	4,6	55,3	49,0	894,0	85,8	1477	20-out-05	5,3	62,9	48,0	888,0	85,8
1268	20-out-05	4,3	58,9	51,0	890,0	85,8	1373	20-out-05	4,6	68,0	49,0	882,0	85,8	1478	20-out-05	4,4	59,9	49,0	890,0	85,8
1269	20-out-05	3,7	61,5	51,0	898,0	85,8	1374	20-out-05	5,0	59,1	49,0	909,0	85,8	1479	20-out-05	4,8	54,4	48,0	874,0	85,8
1270	20-out-05	3,9	72,1	51,0	868,0	85,8	1375	20-out-05	4,1	62,9	49,0	802,0	85,8	1480	20-out-05	4,6	57,4	48,0	888,0	85,8
1271	20-out-05	4,7	59,5	51,0	888,0	85,2	1376	20-out-05	5,2	58,8	49,0	888,0	85,8	1481	20-out-05	4,8	58,3	49,0	880,0	85,8
1272	20-out-05	4,1	60,0	51,0	887,0	85,8	1377	20-out-05	5,7	61,5	49,0	879,0	85,8	1482	20-out-05	4,6	66,1	48,0	895,0	85,8
1273	20-out-05	4,2	59,6	51,0	911,0	85,8	1378	20-out-05	5,6	66,4	49,0	897,0	85,8	1483	20-out-05	4,7	58,3	49,0	892,0	85,8
1274	20-out-05	4,1	60,3	51,0	862,0	85,8	1379	20-out-05	5,0	58,8	49,0	888,0	85,8	1484	20-out-05	4,7	51,4	48,0	841,0	85,8
1275	20-out-05	4,1	86,2	51,0	815,0	85,8	1380	20-out-05	5,3	62,1	49,0	887,0	85,8	1485	20-out-05	4,6	55,2	48,0	892,0	85,8
1276	20-out-05	4,1	58,4	51,0	884,0	85,8	1381	20-out-05	4,6	54,3	49,0	891,0	85,8	1486	20-out-05	5,5	55,4	48,0	832,0	85,8
1277	20-out-05	3,8	57,8	51,0	890,0	85,8	1382	20-out-05	5,2	60,7	49,0	893,0	85,8	1487	20-out-05	6,7	56,1	48,0	897,0	85,8
1278	20-out-05	4,1	57,6	51,0	890,0	85,8	1383	20-out-05	5,3	68,3	49,0	885,0	85,8	1488	20-out-05	5,1	57,9	48,0	887,0	85,8
1279	20-out-05	4,3	71,1	51,0	866,0	85,8	1384	20-out-05	5,2	63,7	49,0	888,0	85,8	1489	20-out-05	5,5	62,6	48,0	885,0	85,8
1280	20-out-05	4,2	78,1	51,0	832,0	85,8	1385	20-out-05	6,1	61,6	49,0	887,0	85,8	1490	20-out-05	5,8	61,5	48,0	862,0	85,8
1281	20-out-05	4,1	61,8	51,0	888,0	85,8	1386	20-out-05	5,5	56,6	49,0	886,0	85,8	1491	20-out-05	4,7	54,5	48,0	833,0	85,8
1282	20-out-05	4,1	56,2	51,0	890,0	85,8	1387	20-out-05	4,7	59,7	49,0	892,0	85,8	1492	20-out-05	5,0	62,7	48,0	887,0	85,8
1283	20-out-05	3,9	66,8	51,0	903,0	85,8	1388	20-out-05	4,6	62,8	49,0	844,0	85,2	1493	20-out-05	4,8	58,7	48,0	890,0	85,8
1284	20-out-05	3,9	69,4	51,0	804,0	85,8	1389	20-out-05	5,1	56,7	49,0	829,0	85,8	1494	20-out-05	5,5	54,0	48,0	858,0	85,8
1285	20-out-05	5,5	64,1	51,0	892,0	85,8	1390	20-out-05	6,4	52,1	49,0	811,0	85,8	1495	20-out-05	5,3	57,6	48,0	885,0	85,8
1286	20-out-05	4,3	59,9	51,0	886,0	85,8	1391	20-out-05	4,2	53,0	49,0	889,0	85,8	1496	20-out-05	5,0	66,5	49,0	890,0	85,8
1287	20-out-05	3,3	56,4	51,0	873,0	85,8	1392	20-out-05	5,0	63,4	49,0	888,0	85,8	1497	20-out-05	5,0	63,3	49,0	811,0	85,8
1288	20-out-05	4,3	60,5	51,0	876,0	85,8	1393	20-out-05	4,7	64,5	49,0	866,0	85,8	1498	20-out-05	5,1	58,2	49,0	886,0	85,8
1289	20-out-05	4,7	77,6	51,0	904,0	85,8	1394	20-out-05	4,8	52,3	49,0	831,0	85,8	1499	20-out-05	5,0	54,7	48,0	858,0	85,8
1290	20-out-05	4,7	69,9	51,0	892,0	85,8	1395	20-out-05	6,4	55,8	49,0	886,0	85,8	1500	20-out-05	5,5	55,0	48,0	899,0	85,8
1291	20-out-05	4,2	56,1	51,0	891,0	85,8	1396	20-out-05	4,4	56,4	49,0	878,0	85,8	1501	20-out-05	5,1	60,2	48,0	906,0	85,8
1292	20-out-05	3,7	61,3	51,0	890,0	85,8	1397	20-out-05	5,5	55,0	49,0	886,0	85,8	1502	20-out-05	7,1	68,5	48,0	884,0	85,8
1293	20-out-05	3,9	75,3	51,0	891,0	85,8	1398	20-out-05	5,6	59,1	49,0	840,0	85,8	1503	20-out-05	4,6	59,5	48,0	887,0	85,8
1294	20-out-05	3,8	62,1	51,0	900,0	85,8	1399	20-out-05	5,3	65,2	49,0	830,0	85,8	1504	20-out-05	4,2	54,6	48,0	887,0	85,8
1295	20-out-05	3,9	59,6	51,0	884,0	85,2	1400	20-out-05	6,2	59,8	49,0	840,0	85,8	1505	20-out-05	4,2	55,4	49,0	826,0	85,8
1296	20-out-05	4,1	60,0	51,0	886,0	85,8	1401	20-out-05	5,1	54,4	49,0	889,0	85,8	1506	20-out-05	4,8	58,4	49,0	891,0	85,8
1297	20-out-05	4,1	56,4	51,0	889,0	85,8	1402	20-out-05	4,3	57,7	49,0	875,0	85,8	1507	20-out-05	4,7	56,4	48,0	884,0	85,8
1298	20-out-05	3,9	70,2	51,0	874,0	85,8	1403	20-out-05	4,2	57,6	49,0	880,0	85,8	1508	20-out-05	5,5	55,1	49,0	889,0	85,8
1299	20-out-05	3,9	61,6	51,0	853,0	85,8	1404	20-out-05	5,1	54,3	49,0	902,0	85,8	1509	20-out-05	4,1	54,6	49,0	888,0	85,8
1300	20-out-05	3,9	58,1	51,0	885,0	85,8	1405	20-out-05	4,2	51,9	49,0	892,0	85,8	1510	20-out-05	4,2	52,7	48,0	888,0	85,8
1301	20-out-05	3,9	58,5	51,0	896,0	85,8	1406	20-out-05	4,6	58,4	49,0	895,0	85,8	1511	20-out-05	5,1	59,5	49,0	888,0	85,8
1302	20-out-05	4,4	60,9	51,0	884,0	85,8	1407	20-out-05	5,5	56,7	49,0	892,0	85,8	1512	20-out-05	5,3	59,7	48,0	871,0	85,8
1303	20-out-05	4,3	69,7	51,0	870,0	85,8	1408	20-out-05	5,0	58,6	49,0	897,0	85,8	1513	20-out-05	4,4	52,5	48,0	888,0	85,8
1304	20-out-05	3,8	62,3	51,0	892,0	85,8	1409	20-out-05	6,9	55,8	49,0	887,0	85,8	1514	20-out-05	4,8	54,1	49,0	891,0	85,8
1305	20-out-05	3,4	60,5	51,0	844,0	85,8	1410	20-out-05	5,8	50,5	49,0	888,0	85,8	1515	20-out-05	5,7	52,5	49,0	908,0	85,8
1306	20-out-05	4,3	64,5	51,0	892,0	85,8	1411	20-out-05	4,7	56,0	49,0	902,0	85,8	1516	20-out-05	3,8	50,5	49,0	888,0	85,8
1307	20-out-05	4,8	61,6	51,0	891,0	85,8	1412	20-out-05	5,0	53,1	49,0	900,0	85,8	1517	20-out-05	4,3	53,8	48,0	885,0	85,8
1308	20-out-05	4,2	63,5	51,0	849,0	85,8	1413	20-out-05	4,7	58,5	49,0	885,0	85,8	1518	20-out-05	4,7	57,1	49,0	889,0	85,8
1309	20-out-05	3,8	71,3	51,0	904,0	85,8	1414	20-out-05	5,6	64,9	49,0	808,0	85,8	1519	20-out-05	5,3	58,2	48,0	895,0	85,8
1310	20-out-05	3,3	56,0	51,0	884,0	85,8	1415	20-out-05	4,2	54,9	49,0	902,0	85,8	1520	20-out-05	5,1	57,1	48,0	887,0	85,8
1311	20-out-05	5,2	51,5	51,0	888,0	85,8	1416	20-out-05	5,6	57,8	49,0	887,0	85,8	1521	20-out-05	6,7	53,6	49,0	893,0	85,8
1312	20-out-05	3,8	62,2	51,0	884,0	85,8	1417	20-out-05	4,2	63,1	49,0	808,0	85,8	1522	20-out-05	4,7	63,0	49,0	884,0	85,8
1313	20-out-05	4,4	70,2	51,0	859,0	85,8	1418	20-out-05	4,7	69,9	49,0	899,0	85,8	1523	20-out-05	5,0	62,6	48,0	888,0	85,8
1314	20-out-05	4,2	77,4	51,0	898,0	85,8	1419	20-out-05	4,7	69,4	49,0	865,0	85,8	1524	20-out-05	4,3	53,4	49,0	881,0	85,8
1315	20-out-05	3,9	60,1	51,0	905,0	85,8	1420	20-out-05	5,1	56,3	49,0	817,0	85,8	1525	20-out-05	4,4	56,3	49,0	888,0	85,8
1316	20-out-05	3,9	57,5	51,0	886,0	85,8	1421	20-out-05	5,0	57,0	49,0	888,0	85,8	1526	20-out-05	5,1	54,0	49,0	889,0	85,8
1317	20-out-05	3,9	64,4	51,0	891,0	85,8	1422	20-out-05	6,0	60,4	49,0	868,0	85,8	1527	20-out-05	5,0	51,4	49,0	890,0	85,8
1318	20-out-05	3,8	63,6	51,0	900,0	85,8	1423	20-out-05	5,5	58,4	49,0	889,0	85,8	1528	20-out-05	4,4	53,9	49,0	901,0	85,8
1319	20-out-05	4,2	58,7	51,0	892,0	85,8	1424	20-out-05	4,8	68,7	49,0	884,0	85,8	1529	20-out-05	5,7	60,5	49,0	900,0	85,8
1320	20-out-05	3,6	60,2	51,0	815,0	85,8	1425	20-out-05	5,8	55,0	49,0	888,0	85,8	1530	20-out-05	5,0	55,7	49,0	897,0	85,8
1321	20-out-05	4,6	53,3	50,0	889,0	85,8	1426	20-out-05	4,8	54,9	49,0	803,0	85,8	1531	20-out-05	4,2	57,7	49,0	888,0	85,8
1322	20-out-05	4,6	58,4	50,0	901,0	85,8	1427	20-out-05	5,7	53,7	49,0	889,0								

1332	20-out-05	4,2	57,3	50,0	886,0	85,8	1437	20-out-05	4,3	51,7	49,0	899,0	85,8	1542	20-out-05	5,0	60,0	52,0	900,0	85,8
1333	20-out-05	4,2	60,8	49,0	891,0	85,8	1438	20-out-05	6,4	51,5	49,0	890,0	85,8	1543	20-out-05	5,8	50,6	52,0	899,0	85,8
1334	20-out-05	4,3	63,3	49,0	883,0	85,8	1439	20-out-05	5,1	71,9	49,0	884,0	85,8	1544	20-out-05	5,3	57,3	52,0	858,0	85,8
1335	20-out-05	3,8	59,6	49,0	881,0	85,8	1440	20-out-05	4,8	65,2	49,0	884,0	85,8	1545	20-out-05	6,9	59,0	52,0	902,0	85,8
1336	20-out-05	3,9	57,5	49,0	886,0	85,8	1441	20-out-05	5,3	62,1	49,0	893,0	85,8	1546	20-out-05	6,0	56,4	52,0	866,0	85,8
1337	20-out-05	4,3	57,4	49,0	888,0	85,8	1442	20-out-05	6,0	54,2	49,0	901,0	85,8	1547	20-out-05	4,2	63,3	52,0	871,0	85,8
1338	20-out-05	4,2	67,7	49,0	886,0	85,8	1443	20-out-05	5,5	58,1	49,0	888,0	85,8	1548	20-out-05	5,7	53,3	52,0	887,0	85,8
1339	20-out-05	3,9	66,7	49,0	878,0	85,8	1444	20-out-05	6,9	76,3	49,0	884,0	85,8	1549	20-out-05	5,2	57,4	52,0	882,0	85,8
1340	20-out-05	4,4	60,9	49,0	842,0	85,8	1445	20-out-05	5,3	69,0	49,0	889,0	85,8	1550	20-out-05	5,6	59,4	53,0	884,0	85,8
1341	20-out-05	4,4	56,2	49,0	893,0	85,8	1446	20-out-05	5,3	58,6	49,0	884,0	85,8	1551	20-out-05	5,5	62,9	53,0	889,0	85,8
1342	20-out-05	4,2	58,6	49,0	889,0	85,8	1447	20-out-05	5,2	55,5	49,0	805,0	85,8	1552	20-out-05	4,7	53,4	53,0	889,0	85,8
1343	20-out-05	3,7	58,7	49,0	898,0	85,8	1448	20-out-05	5,8	50,3	49,0	904,0	85,8	1553	20-out-05	5,2	52,3	53,0	883,0	85,8
1344	20-out-05	4,7	63,1	49,0	897,0	85,8	1449	20-out-05	4,8	68,3	49,0	893,0	85,8	1554	20-out-05	5,5	57,2	53,0	916,0	85,8
1345	20-out-05	4,6	65,1	49,0	803,0	85,8	1450	20-out-05	5,3	62,3	49,0	898,0	85,8	1555	20-out-05	5,2	57,3	53,0	902,0	85,8
1346	20-out-05	4,3	57,1	49,0	907,0	85,8	1451	20-out-05	5,5	57,9	49,0	856,0	85,8	1556	20-out-05	5,2	59,8	53,0	879,0	85,8
1347	20-out-05	4,2	62,1	49,0	887,0	85,8	1452	20-out-05	4,3	56,6	49,0	858,0	85,8	1557	20-out-05	5,2	60,9	53,0	839,0	85,8
1348	20-out-05	4,3	54,6	49,0	887,0	85,8	1453	20-out-05	5,5	49,5	49,0	900,0	85,8	1558	20-out-05	5,1	64,1	53,0	884,0	85,8
1349	20-out-05	3,8	63,6	49,0	882,0	85,8	1454	20-out-05	4,8	62,6	49,0	903,0	85,8	1559	20-out-05	5,1	58,3	53,0	830,0	85,8
1350	20-out-05	4,3	65,6	49,0	883,0	85,8	1455	20-out-05	5,5	59,4	49,0	815,0	85,8	1560	20-out-05	4,7	60,6	53,0	888,0	85,8
1351	20-out-05	4,3	65,1	49,0	901,0	85,8	1456	20-out-05	5,8	70,4	49,0	845,0	85,8	1561	20-out-05	6,0	55,0	53,0	888,0	85,8
1352	20-out-05	4,3	58,3	49,0	891,0	85,8	1457	20-out-05	3,9	55,7	49,0	892,0	85,8	1562	20-out-05	4,6	64,8	53,0	886,0	85,8
1353	20-out-05	5,2	69,3	49,0	890,0	85,8	1458	20-out-05	5,2	48,7	48,0	890,0	85,8	1563	20-out-05	5,1	63,8	54,0	887,0	85,8
1354	20-out-05	4,3	63,3	49,0	889,0	85,8	1459	20-out-05	6,1	57,0	49,0	911,0	85,8	1564	20-out-05	5,5	54,7	54,0	853,0	85,8
1355	20-out-05	4,4	63,5	49,0	884,0	85,8	1460	20-out-05	6,0	60,5	49,0	890,0	85,8	1565	20-out-05	5,8	53,3	54,0	889,0	85,8
1356	20-out-05	4,4	56,0	49,0	900,0	85,8	1461	20-out-05	5,1	58,0	49,0	827,0	85,8	1566	20-out-05	5,6	52,9	54,0	888,0	85,8
1357	20-out-05	4,7	58,4	49,0	880,0	85,8	1462	20-out-05	4,8	62,1	49,0	902,0	85,8	1567	20-out-05	5,5	65,2	54,0	890,0	85,8
1358	20-out-05	6,1	57,9	49,0	888,0	85,8	1463	20-out-05	5,7	53,2	49,0	902,0	85,8	1568	20-out-05	5,2	67,1	54,0	904,0	85,8
1359	20-out-05	4,3	60,9	49,0	890,0	85,8	1464	20-out-05	5,5	56,0	49,0	896,0	85,8	1569	20-out-05	4,6	58,7	54,0	864,0	85,8
1570	20-out-05	4,6	60,2	54,0	882,0	85,8	1675	20-out-05	5,6	56,1	53,0	898,0	85,8	1780	20-out-05	4,8	52,7	51,0	894,0	85,8
1571	20-out-05	5,8	54,9	54,0	890,0	85,8	1676	20-out-05	4,8	59,8	52,0	888,0	85,8	1781	20-out-05	3,8	60,3	51,0	885,0	85,8
1572	20-out-05	5,6	62,9	54,0	887,0	85,8	1677	20-out-05	4,4	59,0	52,0	888,0	85,8	1782	20-out-05	4,7	53,2	51,0	888,0	85,8
1573	20-out-05	4,2	63,4	54,0	865,0	85,8	1678	20-out-05	4,6	58,7	52,0	886,0	85,8	1783	20-out-05	4,2	55,5	51,0	857,0	85,8
1574	20-out-05	3,8	57,8	54,0	900,0	85,8	1679	20-out-05	4,8	58,7	52,0	887,0	85,8	1784	20-out-05	4,4	54,4	51,0	884,0	85,8
1575	20-out-05	4,4	59,1	54,0	887,0	85,8	1680	20-out-05	5,1	57,9	52,0	839,0	85,8	1785	20-out-05	5,0	52,6	51,0	884,0	85,8
1576	20-out-05	7,5	55,1	54,0	978,0	98,6	1681	20-out-05	4,7	65,8	52,0	832,0	85,8	1786	20-out-05	4,3	63,8	51,0	886,0	85,8
1577	20-out-05	4,3	57,6	54,0	889,0	85,8	1682	20-out-05	4,8	58,4	52,0	870,0	85,8	1787	20-out-05	4,6	58,1	51,0	886,0	85,8
1578	20-out-05	3,8	59,9	54,0	902,0	85,8	1683	20-out-05	4,2	58,7	51,0	886,0	85,8	1788	20-out-05	4,6	53,6	51,0	876,0	85,8
1579	20-out-05	5,2	60,5	54,0	881,0	85,8	1684	20-out-05	4,3	52,4	51,0	885,0	85,8	1789	20-out-05	4,1	54,1	51,0	884,0	85,8
1580	20-out-05	5,3	65,3	54,0	900,0	85,8	1685	20-out-05	4,3	61,6	51,0	886,0	85,8	1790	20-out-05	4,1	59,4	51,0	885,0	85,8
1581	20-out-05	3,9	51,4	54,0	877,0	85,8	1686	20-out-05	4,6	64,1	51,0	863,0	85,8	1791	20-out-05	4,1	58,3	51,0	892,0	85,8
1582	20-out-05	4,2	58,6	54,0	893,0	85,8	1687	20-out-05	5,2	58,1	51,0	889,0	85,8	1792	20-out-05	4,7	66,2	51,0	901,0	85,8
1583	20-out-05	4,3	60,7	54,0	884,0	85,8	1688	20-out-05	3,9	56,6	51,0	884,0	85,8	1793	20-out-05	4,4	50,3	51,0	880,0	85,8
1584	20-out-05	4,4	60,5	54,0	887,0	85,8	1689	20-out-05	3,9	58,5	51,0	894,0	85,8	1794	20-out-05	4,1	50,5	51,0	883,0	85,8
1585	20-out-05	5,0	60,5	54,0	861,0	85,8	1690	20-out-05	4,4	53,9	51,0	890,0	85,8	1795	20-out-05	4,1	53,2	51,0	882,0	85,8
1586	20-out-05	3,7	58,6	54,0	884,0	85,8	1691	20-out-05	4,3	56,2	51,0	886,0	85,8	1796	20-out-05	4,3	58,2	51,0	887,0	85,8
1587	20-out-05	3,3	60,2	54,0	876,0	85,8	1692	20-out-05	5,0	57,9	51,0	885,0	85,8	1797	20-out-05	5,0	57,5	51,0	874,0	85,8
1588	20-out-05	4,8	58,5	54,0	884,0	85,8	1693	20-out-05	4,3	57,3	51,0	844,0	85,8	1798	20-out-05	4,3	56,0	51,0	838,0	85,8
1589	20-out-05	4,1	59,1	54,0	891,0	85,8	1694	20-out-05	4,1	56,0	51,0	903,0	85,8	1799	20-out-05	4,6	52,3	51,0	885,0	85,8
1590	20-out-05	6,0	56,7	54,0	891,0	85,8	1695	20-out-05	4,8	55,5	51,0	886,0	85,8	1800	20-out-05	3,7	54,1	51,0	887,0	85,8
1591	20-out-05	5,1	57,1	54,0	892,0	85,8	1696	20-out-05	4,4	59,2	51,0	885,0	85,8	1801	20-out-05	4,1	56,5	51,0	888,0	85,8
1592	20-out-05	4,8	58,8	53,0	889,0	85,8	1697	20-out-05	3,9	55,2	51,0	863,0	85,8	1802	20-out-05	4,3	64,8	51,0	885,0	85,8
1593	20-out-05	4,4	54,7	54,0	915,0	85,8	1698	20-out-05	4,8	57,1	51,0	900,0	85,8	1803	20-out-05	5,3	60,6	51,0	827,0	85,8
1594	20-out-05	4,2	54,4	54,0	876,0	85,8	1699	20-out-05	3,9	57,3	51,0	888,0	85,8	1804	20-out-05	4,3	54,9	51,0	899,0	85,8
1595	20-out-05	5,2	63,2	54,0	877,0	85,8	1700	20-out-05	4,3	59,0	51,0	892,0	85,8	1805	20-out-05	4,1	56,8	51,0	900,0	85,8
1596	20-out-05	4,4	54,3	54,0	889,0	85,8	1701	20-out-05	4,2	56,2	51,0	889,0	85,8	1806	20-out-05	4,2	58,1	51,0	885,0	85,8
1597	20-out-05	4,4	55,9	54,0	863,0	85,8	1702	20-out-05	4,2	52,5	51,0	896,0	85,8	1807	20-out-05	5,0	59,1	51,0	887,0	85,8
1598	20-out-05	4,3	66,9	53,0	830,0	85,8	1703	20-out-05	4,8	59,0	51,0	888,0	85,8	1808	20-out-05	3,7	58,4	51,0	876,0	85,8
1599	20-out-05	5,1	60,1	54,0	901,0	85,8	1704	20-out-05	4,7	60,1	51,0	885,0	85,8	1809	20-out-05	4,3	51,6	51,0	889,0	85,8
1600	20-out-05	5,2	53,1	53,0	903,0	85,8	1705	20-out-05	3,7	57,3	51,0	887,0	85,8	1810	20-out-05	4,6	54,3	51,0	888,0	85,8
1601	20-out-05	4,1	55,3	54,0	889,0	85,8	1706	20-out-05	3,8	56,7	51,0	885,0	85,8	1811	20-out-05	4,3	51,5	51,0	876,0	85,8
1602	20-out-05	5,6	55,5	53,0	890,0	85,8	1707	20-out-05	4,1	52,2	51,0	884,0	85,8	1812	20-out-05	3,9	60,0	51,0	883,0	85,8
1603	20-out-05	6,6	68,5	53,0	900,0	85,8	1708	20-out-05	3,6	59,0	51,0	888,0								

1613	20-out-05	6,4	56,4	53,0	856,0	85,8	1718	20-out-05	4,6	53,4	51,0	886,0	85,8	1823	20-out-05	4,4	54,2	51,0	884,0	85,8
1614	20-out-05	5,2	68,5	53,0	891,0	85,8	1719	20-out-05	5,1	52,1	51,0	829,0	85,8	1824	20-out-05	4,1	54,4	51,0	838,0	85,8
1615	20-out-05	3,9	62,0	53,0	897,0	85,8	1720	20-out-05	3,8	61,6	51,0	889,0	85,8	1825	20-out-05	4,7	54,2	51,0	887,0	85,8
1616	20-out-05	4,3	54,9	53,0	892,0	85,8	1721	20-out-05	3,6	55,6	51,0	887,0	85,8	1826	20-out-05	5,1	58,5	51,0	887,0	85,8
1617	20-out-05	4,6	56,0	53,0	899,0	85,8	1722	20-out-05	4,1	53,1	51,0	888,0	85,8	1827	20-out-05	5,1	57,5	51,0	878,0	85,8
1618	20-out-05	4,4	57,3	53,0	897,0	85,8	1723	20-out-05	4,2	52,9	51,0	886,0	85,8	1828	20-out-05	6,1	59,2	51,0	892,0	85,8
1619	20-out-05	5,0	58,3	53,0	891,0	85,8	1724	20-out-05	4,6	59,3	51,0	900,0	85,8	1829	20-out-05	5,5	57,0	51,0	840,0	85,8
1620	20-out-05	4,7	60,1	54,0	873,0	85,8	1725	20-out-05	4,6	58,0	51,0	884,0	85,8	1830	20-out-05	4,7	52,2	51,0	890,0	85,8
1621	20-out-05	4,7	60,0	54,0	881,0	85,8	1726	20-out-05	3,9	56,7	51,0	884,0	85,8	1831	20-out-05	4,8	63,5	51,0	890,0	85,8
1622	20-out-05	4,3	59,4	53,0	889,0	85,8	1727	20-out-05	4,7	54,8	51,0	900,0	85,8	1832	20-out-05	3,9	61,2	51,0	881,0	85,8
1623	20-out-05	5,2	49,3	53,0	884,0	85,8	1728	20-out-05	3,8	57,2	51,0	901,0	85,8	1833	20-out-05	5,0	62,1	51,0	858,0	85,8
1624	20-out-05	4,2	58,9	53,0	899,0	85,8	1729	20-out-05	3,9	60,8	51,0	887,0	85,8	1834	20-out-05	5,1	57,9	51,0	889,0	85,8
1625	20-out-05	4,8	60,8	53,0	901,0	85,8	1730	20-out-05	4,1	56,5	51,0	888,0	85,8	1835	20-out-05	3,7	51,5	51,0	883,0	85,8
1626	20-out-05	5,1	61,4	53,0	902,0	85,8	1731	20-out-05	4,4	55,5	51,0	895,0	85,8	1836	20-out-05	4,2	54,3	51,0	884,0	85,8
1627	20-out-05	4,2	58,4	53,0	884,0	85,8	1732	20-out-05	4,6	51,5	51,0	886,0	85,8	1837	20-out-05	3,8	60,1	51,0	885,0	85,8
1628	20-out-05	4,6	56,2	53,0	887,0	85,8	1733	20-out-05	3,9	54,0	51,0	868,0	85,8	1838	20-out-05	5,5	62,8	51,0	885,0	85,8
1629	20-out-05	4,8	53,6	53,0	884,0	85,8	1734	20-out-05	3,4	57,6	51,0	889,0	85,8	1839	20-out-05	4,7	57,1	51,0	853,0	85,8
1630	20-out-05	4,6	60,4	53,0	884,0	85,8	1735	20-out-05	4,3	59,5	51,0	892,0	85,8	1840	20-out-05	4,3	50,4	51,0	886,0	85,8
1631	20-out-05	4,2	58,5	53,0	885,0	85,8	1736	20-out-05	3,7	55,7	51,0	882,0	85,8	1841	20-out-05	5,1	70,7	51,0	888,0	85,8
1632	20-out-05	5,7	66,5	53,0	892,0	85,8	1737	20-out-05	4,3	60,1	51,0	894,0	85,8	1842	20-out-05	4,6	65,0	51,0	887,0	85,8
1633	20-out-05	4,1	59,4	53,0	887,0	85,8	1738	20-out-05	4,1	55,1	51,0	893,0	85,8	1843	20-out-05	3,9	58,9	51,0	870,0	85,8
1634	20-out-05	5,2	57,5	53,0	829,0	85,8	1739	20-out-05	4,8	52,7	51,0	870,0	85,8	1844	20-out-05	4,6	69,2	51,0	889,0	85,8
1635	20-out-05	4,8	57,2	53,0	895,0	85,8	1740	20-out-05	4,1	56,1	51,0	887,0	85,8	1845	20-out-05	4,3	49,9	51,0	889,0	85,8
1636	20-out-05	4,6	68,6	53,0	815,0	85,8	1741	20-out-05	4,8	56,1	51,0	889,0	85,8	1846	20-out-05	4,7	58,0	51,0	830,0	85,8
1637	20-out-05	4,2	63,6	53,0	888,0	85,8	1742	20-out-05	4,3	54,0	51,0	883,0	85,8	1847	20-out-05	4,8	63,2	51,0	888,0	85,8
1638	20-out-05	4,7	59,8	53,0	880,0	85,8	1743	20-out-05	4,3	59,4	51,0	887,0	85,8	1848	20-out-05	5,0	68,2	51,0	893,0	85,8
1639	20-out-05	5,2	65,6	53,0	886,0	85,8	1744	20-out-05	4,3	61,3	51,0	890,0	85,8	1849	20-out-05	4,7	77,1	51,0	890,0	85,8
1640	20-out-05	5,0	55,1	53,0	854,0	85,8	1745	20-out-05	4,2	51,9	51,0	886,0	85,8	1850	20-out-05	4,3	56,7	51,0	886,0	85,8
1641	20-out-05	4,6	52,9	53,0	899,0	85,8	1746	20-out-05	4,1	56,0	51,0	805,0	85,8	1851	20-out-05	4,1	51,9	51,0	889,0	85,8
1642	20-out-05	4,7	58,4	53,0	888,0	85,8	1747	20-out-05	5,2	56,0	51,0	890,0	85,8	1852	20-out-05	4,2	61,3	51,0	888,0	85,8
1643	20-out-05	5,0	62,8	53,0	889,0	85,8	1748	20-out-05	4,8	56,9	51,0	888,0	85,8	1853	20-out-05	5,0	67,9	51,0	889,0	85,8
1644	20-out-05	4,6	58,6	53,0	884,0	85,8	1749	20-out-05	4,7	57,4	51,0	890,0	85,8	1854	20-out-05	4,2	64,0	51,0	842,0	85,8
1645	20-out-05	4,6	60,7	53,0	879,0	85,8	1750	20-out-05	5,5	57,8	51,0	889,0	85,8	1855	20-out-05	4,4	61,1	51,0	886,0	85,8
1646	20-out-05	4,3	52,7	53,0	887,0	85,8	1751	20-out-05	3,9	55,3	51,0	886,0	85,8	1856	20-out-05	4,4	54,8	51,0	884,0	85,8
1647	20-out-05	5,5	58,3	53,0	889,0	85,8	1752	20-out-05	3,9	54,6	51,0	888,0	85,8	1857	20-out-05	5,6	59,1	51,0	886,0	85,8
1648	20-out-05	4,8	60,2	53,0	886,0	85,8	1753	20-out-05	4,1	55,9	51,0	888,0	85,8	1858	20-out-05	4,7	65,7	51,0	894,0	85,8
1649	20-out-05	4,2	63,2	53,0	884,0	85,8	1754	20-out-05	5,0	59,5	51,0	900,0	85,8	1859	20-out-05	4,8	72,2	51,0	891,0	85,8
1650	20-out-05	6,0	62,6	53,0	884,0	85,8	1755	20-out-05	4,3	61,9	51,0	900,0	85,8	1860	20-out-05	5,5	52,8	51,0	877,0	85,8
1651	20-out-05	4,2	57,9	53,0	889,0	85,8	1756	20-out-05	3,8	59,1	51,0	811,0	85,8	1861	20-out-05	4,1	56,3	51,0	885,0	85,8
1652	20-out-05	4,2	56,0	53,0	851,0	85,8	1757	20-out-05	4,3	57,2	51,0	888,0	85,8	1862	20-out-05	4,7	71,6	51,0	887,0	85,8
1653	20-out-05	4,1	52,7	53,0	887,0	85,8	1758	20-out-05	5,0	52,1	51,0	887,0	85,8	1863	20-out-05	4,3	61,9	51,0	886,0	85,8
1654	20-out-05	4,3	60,4	53,0	883,0	85,8	1759	20-out-05	4,3	56,5	51,0	887,0	85,8	1864	20-out-05	4,2	66,5	51,0	912,0	85,8
1655	20-out-05	4,8	64,0	53,0	884,0	85,8	1760	20-out-05	4,6	53,2	51,0	903,0	85,8	1865	20-out-05	4,7	58,8	51,0	886,0	85,8
1656	20-out-05	5,6	55,9	53,0	897,0	85,8	1761	20-out-05	4,2	55,5	51,0	903,0	85,8	1866	20-out-05	4,3	53,7	51,0	887,0	85,8
1657	20-out-05	4,7	57,7	53,0	879,0	85,8	1762	20-out-05	4,3	53,3	51,0	901,0	85,8	1867	20-out-05	5,6	61,3	51,0	896,0	85,8
1658	20-out-05	5,1	62,0	53,0	899,0	85,8	1763	20-out-05	4,6	55,2	51,0	843,0	85,8	1868	20-out-05	5,1	61,5	51,0	898,0	85,8
1659	20-out-05	5,8	59,2	53,0	888,0	85,8	1764	20-out-05	4,3	57,5	51,0	897,0	85,8	1869	20-out-05	4,8	70,3	51,0	876,0	85,8
1660	20-out-05	4,8	56,9	53,0	885,0	85,8	1765	20-out-05	4,4	58,5	51,0	892,0	85,8	1870	20-out-05	5,0	63,2	51,0	885,0	85,8
1661	20-out-05	5,0	61,4	53,0	884,0	85,8	1766	20-out-05	3,7	57,8	51,0	887,0	85,8	1871	20-out-05	4,4	73,5	51,0	878,0	85,8
1662	20-out-05	5,7	59,9	53,0	886,0	85,8	1767	20-out-05	5,0	53,7	51,0	880,0	85,8	1872	20-out-05	5,0	67,7	51,0	887,0	85,8
1663	20-out-05	5,0	63,5	53,0	840,0	85,8	1768	20-out-05	4,2	50,1	51,0	887,0	85,8	1873	20-out-05	5,2	66,4	51,0	886,0	85,8
1664	20-out-05	4,7	62,7	53,0	895,0	85,8	1769	20-out-05	4,2	51,6	51,0	871,0	85,8	1874	20-out-05	4,2	82,4	51,0	899,0	85,4
1665	20-out-05	5,3	53,6	53,0	891,0	85,8	1770	20-out-05	4,1	57,8	51,0	888,0	85,8	1875	20-out-05	4,7	56,6	51,0	897,0	85,8
1666	20-out-05	5,5	62,3	53,0	890,0	85,8	1771	20-out-05	4,2	59,1	51,0	898,0	85,8	1876	20-out-05	4,2	55,2	51,0	879,0	85,8
1667	20-out-05	5,3	59,3	53,0	886,0	85,8	1772	20-out-05	4,7	54,2	51,0	900,0	85,8	1877	20-out-05	4,1	68,6	51,0	888,0	85,8
1668	20-out-05	5,2	59,5	53,0	885,0	85,8	1773	20-out-05	4,1	52,6	51,0	900,0	85,8	1878	20-out-05	3,9	59,2	51,0	889,0	85,8
1669	20-out-05	4,6	59,7	53,0	839,0	85,8	1774	20-out-05	6,5	56,0	51,0	888,0	85,8	1879	20-out-05	5,1	68,5	51,0	861,0	85,8
1670	20-out-05	4,6	59,1	53,0	893,0	85,8	1775	20-out-05	4,3	57,0	51,0	902,0	85,8	1880	20-out-05	4,3	56,1	51,0	889,0	85,8
1671	20-out-05	4,6	55,8	53,0	904,0	85,8	1776	20-out-05	5,0	60,0	51,0	886,0	85,8	1881	20-out-05	4,7	59,6	51,0	887,0	85,8
1672	20-out-05	5,2	58,3	53,0	890,0	85,8	1777	20-out-05	4,6	57,3	51,0	888,0	85,8	1882	20-out-05	4,8	60,9	51,0	884,0	85,8
1673	20-out-05	5,3	68,8	53,0	884,0	85,8	1778	20-out-05	4,6	53,2	51,0	887,0	85,8	1883	20-out-05	4,2	66,0	51,0	885,0	85,8
1674	20-out-05	4,7	58,2	53,0	902,0	85,8	1779	20-out-05	5,3	57,8	51,0	885,0								

1894	20-out-05	4,6	68,5	51,0	994,0	85,3	1999	20-out-05	4,4	58,5	51,0	993,0	85,3	2104	20-out-05	4,3	67,7	51,0	995,0	85,3
1895	20-out-05	5,3	66,6	51,0	994,0	85,3	2000	20-out-05	3,9	65,7	51,0	996,0	85,3	2105	20-out-05	3,8	60,3	51,0	979,0	85,3
1896	20-out-05	4,6	65,7	51,0	973,0	85,3	2001	20-out-05	4,6	59,4	51,0	940,0	85,3	2106	20-out-05	3,7	59,5	51,0	996,0	85,3
1897	20-out-05	4,8	57,1	51,0	995,0	85,3	2002	20-out-05	4,6	67,4	51,0	994,0	85,3	2107	20-out-05	4,4	52,8	51,0	996,0	85,3
1898	20-out-05	6,0	57,3	51,0	900,0	85,3	2003	20-out-05	4,7	58,5	51,0	919,0	85,3	2108	20-out-05	4,6	65,2	51,0	996,0	85,3
1899	20-out-05	4,8	65,4	51,0	950,0	85,3	2004	20-out-05	4,7	61,8	51,0	990,0	85,3	2109	20-out-05	4,1	61,0	51,0	626,0	85,3
1900	20-out-05	4,4	66,7	51,0	995,0	85,3	2005	20-out-05	4,6	77,1	51,0	990,0	85,3	2110	20-out-05	4,7	53,8	51,0	992,0	85,3
1901	20-out-05	5,0	57,9	51,0	996,0	85,3	2006	20-out-05	3,6	56,7	51,0	996,0	85,3	2111	20-out-05	4,2	61,7	51,0	923,0	85,3
1902	20-out-05	3,8	56,8	51,0	991,0	85,3	2007	20-out-05	4,4	58,3	51,0	995,0	85,3	2112	20-out-05	4,2	52,1	51,0	997,0	85,3
1903	20-out-05	4,4	61,5	51,0	990,0	85,3	2008	20-out-05	4,4	65,3	51,0	996,0	85,3	2113	20-out-05	4,3	61,0	51,0	900,0	85,3
1904	20-out-05	3,8	59,6	51,0	995,0	85,3	2009	20-out-05	4,8	60,4	51,0	996,0	85,3	2114	20-out-05	4,6	64,3	51,0	996,0	85,3
1905	20-out-05	4,4	60,7	51,0	999,0	85,3	2010	20-out-05	4,6	63,2	51,0	991,0	85,3	2115	20-out-05	4,8	59,2	51,0	990,0	85,3
1906	20-out-05	3,9	56,9	51,0	995,0	85,3	2011	20-out-05	3,9	58,8	51,0	996,0	85,3	2116	20-out-05	4,7	56,6	51,0	993,0	85,3
1907	20-out-05	4,3	59,7	51,0	992,0	85,3	2012	20-out-05	3,9	62,9	51,0	977,0	85,3	2117	20-out-05	4,1	55,1	51,0	993,0	85,3
1908	20-out-05	4,3	66,5	51,0	992,0	85,3	2013	20-out-05	3,9	63,6	51,0	995,0	85,3	2118	20-out-05	5,0	60,0	51,0	999,0	85,3
1909	20-out-05	3,2	61,5	51,0	994,0	85,3	2014	20-out-05	4,8	63,0	51,0	994,0	85,3	2119	20-out-05	4,4	61,0	51,0	999,0	85,3
1910	20-out-05	3,8	61,1	51,0	953,0	85,3	2015	20-out-05	4,8	62,7	51,0	995,0	85,3	2120	20-out-05	4,8	58,4	51,0	972,0	85,3
1911	20-out-05	4,3	61,2	51,0	900,0	85,3	2016	20-out-05	4,1	62,1	51,0	996,0	85,3	2121	20-out-05	4,2	58,0	51,0	999,0	85,3
1912	20-out-05	4,7	55,9	51,0	996,0	85,3	2017	20-out-05	3,9	69,1	51,0	999,0	85,3	2122	20-out-05	3,7	57,7	51,0	995,0	85,3
1913	20-out-05	3,8	52,4	51,0	996,0	85,3	2018	20-out-05	4,1	64,6	51,0	901,0	85,3	2123	20-out-05	4,4	61,8	51,0	994,0	85,3
1914	20-out-05	4,6	68,0	51,0	969,0	85,3	2019	20-out-05	3,8	57,9	51,0	730,0	85,3	2124	20-out-05	3,8	66,6	51,0	975,0	85,3
1915	20-out-05	3,9	59,9	51,0	996,0	85,3	2020	20-out-05	5,2	63,9	51,0	994,0	85,3	2125	20-out-05	4,7	58,3	51,0	994,0	85,3
1916	20-out-05	4,6	58,1	51,0	992,0	85,3	2021	20-out-05	4,2	61,8	51,0	997,0	85,3	2126	20-out-05	3,9	58,6	51,0	999,0	85,3
1917	20-out-05	4,2	55,1	51,0	995,0	85,3	2022	20-out-05	4,3	59,2	51,0	994,0	85,3	2127	20-out-05	4,8	52,3	51,0	999,0	85,3
1918	20-out-05	4,4	60,3	51,0	996,0	85,3	2023	20-out-05	4,1	61,7	51,0	953,0	85,3	2128	20-out-05	4,1	56,9	51,0	975,0	85,3
1919	20-out-05	6,2	64,0	51,0	923,0	85,3	2024	20-out-05	4,1	60,8	51,0	999,0	85,3	2129	20-out-05	3,7	62,9	51,0	997,0	85,3
1920	20-out-05	4,1	57,8	51,0	997,0	85,3	2025	20-out-05	4,2	61,2	51,0	900,0	85,3	2130	20-out-05	3,9	67,8	51,0	996,0	85,3
1921	20-out-05	4,4	63,6	51,0	995,0	85,3	2026	20-out-05	4,4	60,0	51,0	911,0	85,3	2131	20-out-05	4,1	59,8	51,0	996,0	85,3
1922	20-out-05	5,3	62,4	51,0	999,0	85,3	2027	20-out-05	4,4	61,6	51,0	994,0	85,3	2132	20-out-05	4,3	54,1	51,0	995,0	85,3
1923	20-out-05	5,7	59,6	51,0	994,0	85,3	2028	20-out-05	4,1	61,7	51,0	979,0	85,3	2133	20-out-05	4,1	57,5	51,0	997,0	85,3
1924	20-out-05	4,2	71,5	51,0	953,0	85,3	2029	20-out-05	4,6	62,0	51,0	997,0	85,3	2134	20-out-05	4,3	63,4	51,0	995,0	85,3
1925	20-out-05	4,1	64,7	51,0	960,0	85,3	2030	20-out-05	4,1	62,6	51,0	921,0	85,3	2135	20-out-05	4,4	60,6	51,0	996,0	85,3
1926	20-out-05	4,4	55,4	51,0	996,0	85,3	2031	20-out-05	4,3	58,0	51,0	997,0	85,3	2136	20-out-05	4,8	63,6	51,0	997,0	85,3
1927	20-out-05	4,4	56,1	51,0	976,0	85,3	2032	20-out-05	5,1	68,7	51,0	996,0	85,3	2137	20-out-05	5,3	55,5	51,0	994,0	85,3
1928	20-out-05	3,9	61,2	51,0	993,0	85,3	2033	20-out-05	3,7	56,1	51,0	996,0	85,3	2138	20-out-05	4,3	66,2	51,0	997,0	85,3
1929	20-out-05	4,8	66,9	51,0	969,0	85,3	2034	20-out-05	4,6	62,2	51,0	900,0	85,3	2139	20-out-05	4,4	63,8	51,0	970,0	85,3
1930	20-out-05	4,1	61,5	51,0	993,0	85,3	2035	20-out-05	5,1	63,0	51,0	900,0	85,3	2140	20-out-05	4,2	63,3	51,0	966,0	85,3
1931	20-out-05	5,3	58,1	51,0	991,0	85,3	2036	20-out-05	4,4	56,7	51,0	900,0	85,3	2141	20-out-05	4,6	64,9	51,0	991,0	85,3
1932	20-out-05	5,1	52,6	51,0	973,0	85,3	2037	20-out-05	4,1	59,8	51,0	995,0	85,3	2142	20-out-05	4,4	56,6	51,0	999,0	85,3
1933	20-out-05	4,6	60,6	51,0	994,0	85,3	2038	20-out-05	3,6	60,7	51,0	990,0	85,3	2143	20-out-05	4,3	62,9	51,0	976,0	85,3
1934	20-out-05	4,3	66,3	51,0	995,0	85,3	2039	20-out-05	5,0	65,0	51,0	995,0	85,3	2144	20-out-05	4,2	58,5	51,0	997,0	85,3
1935	20-out-05	4,6	61,1	51,0	990,0	85,3	2040	20-out-05	4,2	64,0	51,0	906,0	85,3	2145	20-out-05	4,4	58,5	51,0	900,0	85,3
1936	20-out-05	4,7	66,8	51,0	999,0	85,3	2041	20-out-05	5,1	59,9	51,0	995,0	85,3	2146	20-out-05	4,3	54,9	51,0	996,0	85,3
1937	20-out-05	4,3	60,1	51,0	997,0	85,3	2042	20-out-05	4,2	63,3	51,0	995,0	85,3	2147	20-out-05	5,0	60,2	51,0	993,0	85,3
1938	20-out-05	5,0	57,3	51,0	993,0	85,3	2043	20-out-05	3,9	60,0	51,0	996,0	85,3	2148	20-out-05	3,4	57,9	51,0	994,0	85,3
1939	20-out-05	4,8	73,0	51,0	997,0	85,3	2044	20-out-05	4,6	70,4	51,0	971,0	85,3	2149	20-out-05	4,7	69,6	51,0	937,0	85,3
1940	20-out-05	4,1	66,7	51,0	995,0	85,3	2045	20-out-05	4,2	63,9	51,0	997,0	85,3	2150	20-out-05	4,1	61,8	51,0	942,0	85,3
1941	20-out-05	5,0	58,8	51,0	990,0	85,3	2046	20-out-05	4,6	55,6	51,0	996,0	85,3	2151	20-out-05	4,3	59,4	51,0	996,0	85,3
1942	20-out-05	3,9	63,5	51,0	994,0	85,3	2047	20-out-05	4,2	64,8	51,0	900,0	85,3	2152	20-out-05	4,4	59,8	51,0	901,0	85,3
1943	20-out-05	4,6	60,4	51,0	992,0	91,4	2048	20-out-05	4,2	60,3	51,0	900,0	85,3	2153	20-out-05	4,2	59,5	51,0	999,0	85,3
1944	20-out-05	5,0	65,8	51,0	999,0	91,4	2049	20-out-05	4,4	65,4	51,0	994,0	85,3	2154	20-out-05	4,3	61,5	51,0	900,0	85,3
1945	20-out-05	4,2	60,9	51,0	992,0	85,3	2050	20-out-05	4,2	61,7	51,0	905,0	85,3	2155	20-out-05	4,4	61,4	51,0	999,0	85,3
1946	20-out-05	5,0	62,6	51,0	999,0	91,4	2051	20-out-05	4,7	54,9	51,0	999,0	85,3	2156	20-out-05	4,2	63,9	51,0	969,0	85,3
1947	20-out-05	4,3	71,3	51,0	997,0	91,4	2052	20-out-05	4,7	63,4	51,0	997,0	85,3	2157	20-out-05	3,8	55,5	51,0	995,0	85,3
1948	20-out-05	4,7	59,1	51,0	994,0	91,4	2053	20-out-05	3,8	59,6	51,0	995,0	85,3	2158	20-out-05	4,2	60,6	51,0	994,0	85,3
1949	20-out-05	5,0	67,4	51,0	992,0	85,3	2054	20-out-05	3,9	61,6	51,0	969,0	85,3	2159	20-out-05	4,2	60,6	51,0	905,0	85,3
1950	20-out-05	4,8	59,7	51,0	996,0	91,4	2055	20-out-05	4,7	63,5	51,0	995,0	85,3	2160	20-out-05	6,0	67,9	51,0	994,0	85,3
1951	20-out-05	3,9	59,8	51,0	997,0	91,4	2056	20-out-05	5,6	63,0	51,0	965,0	85,3	2161	20-out-05	4,1	58,4	51,0	909,0	85,3
1952	20-out-05	5,2	58,4	51,0	992,0	91,4	2057	20-out-05	4,7	68,2	51,0	992,0	85,3	2162	20-out-05	4,2	54,7	51,0	991,0	85,3
1953	20-out-05	4,4	58,7	51,0	999,0	85,3	2058	20-out-05	3,7	58,3	51,0	990,0	85,3	2163	20-out-05	4,8	63,1	51,0	995,0	85,3
1954	20-out-05	4,1	61,4	51,0	991,0	91,4	2059	20-out-05	4,8	63,6	51,0	955,0	85,3	2164	20-out-05	4,3	57,7	51,0	994,0	85,3
1955	20-out-05	4,7	65,9	51,0	999,0	91,4	2060	20-out-05	4,4	58,2	51,0	946,0								

1965	20-out-05	5,6	64,7	51,0	996,0	91,4	2070	20-out-05	4,6	61,5	51,0	770,0	85,3	2175	20-out-05	5,3	72,6	51,0	996,0	85,3
1966	20-out-05	4,2	76,1	51,0	999,0	85,3	2071	20-out-05	3,8	54,5	51,0	991,0	85,3	2176	20-out-05	4,6	65,1	51,0	995,0	85,3
1967	20-out-05	4,1	54,5	51,0	969,0	85,3	2072	20-out-05	4,7	58,3	51,0	996,0	85,3	2177	20-out-05	5,2	69,2	51,0	793,0	85,3
1968	20-out-05	4,4	59,4	51,0	994,0	91,4	2073	20-out-05	4,4	62,0	51,0	996,0	85,3	2178	20-out-05	3,9	55,4	51,0	694,0	85,3
1969	20-out-05	4,6	63,2	51,0	994,0	91,4	2074	20-out-05	3,8	60,7	51,0	996,0	85,3	2179	20-out-05	4,3	60,9	51,0	900,0	85,3
1970	20-out-05	4,6	65,5	51,0	999,0	91,4	2075	20-out-05	4,4	53,9	51,0	999,0	85,3	2180	20-out-05	4,2	55,3	51,0	901,0	85,3
1971	20-out-05	4,4	64,3	51,0	900,0	91,4	2076	20-out-05	4,2	54,8	51,0	999,0	85,3	2181	20-out-05	4,3	67,7	51,0	995,0	85,3
1972	20-out-05	5,2	59,4	51,0	973,0	85,3	2077	20-out-05	4,2	57,4	51,0	997,0	85,3	2182	20-out-05	5,5	62,0	51,0	907,0	85,3
1973	20-out-05	4,6	60,9	51,0	997,0	91,4	2078	20-out-05	4,1	66,2	51,0	996,0	85,3	2183	20-out-05	3,9	60,7	51,0	996,0	85,3
1974	20-out-05	4,7	63,7	51,0	996,0	91,4	2079	20-out-05	3,8	65,6	51,0	934,0	85,3	2184	20-out-05	4,2	52,1	51,0	990,0	85,3
1975	20-out-05	4,3	68,7	51,0	977,0	91,4	2080	20-out-05	4,4	59,4	51,0	996,0	85,3	2185	20-out-05	4,8	61,4	51,0	993,0	85,3
1976	20-out-05	4,2	62,0	51,0	996,0	91,4	2081	20-out-05	4,2	54,6	51,0	995,0	85,3	2186	20-out-05	6,2	63,8	51,0	979,0	85,3
1977	20-out-05	5,1	63,8	51,0	992,0	91,4	2082	20-out-05	4,3	56,7	51,0	995,0	85,3	2187	20-out-05	5,3	60,5	51,0	999,0	85,3
1978	20-out-05	4,2	66,0	51,0	996,0	91,4	2083	20-out-05	4,6	59,5	51,0	994,0	85,3	2188	20-out-05	6,0	57,2	51,0	901,0	85,3
1979	20-out-05	4,6	58,2	51,0	930,0	85,3	2084	20-out-05	4,2	64,7	51,0	997,0	85,3	2189	20-out-05	5,0	56,3	51,0	996,0	85,3
1980	20-out-05	4,4	61,1	51,0	900,0	91,4	2085	20-out-05	4,4	58,4	51,0	969,0	85,3	2190	20-out-05	4,6	58,4	51,0	996,0	85,3
1981	20-out-05	4,6	60,7	51,0	900,0	91,4	2086	20-out-05	4,1	50,9	51,0	999,0	95,2	2191	20-out-05	4,8	62,9	51,0	975,0	85,3
1982	20-out-05	4,4	60,7	51,0	900,0	91,4	2087	20-out-05	3,9	53,7	51,0	999,0	85,3	2192	20-out-05	6,1	58,9	51,0	996,0	85,3
1983	20-out-05	4,4	64,7	51,0	900,0	91,4	2088	20-out-05	4,3	62,3	51,0	996,0	85,3	2193	20-out-05	4,4	56,0	51,0	996,0	85,3
1984	20-out-05	4,4	67,9	51,0	999,0	91,4	2089	20-out-05	3,9	67,9	51,0	996,0	85,3	2194	20-out-05	4,8	56,7	51,0	900,0	85,3
1985	20-out-05	3,8	62,8	51,0	994,0	91,4	2090	20-out-05	4,6	64,8	51,0	903,0	85,3	2195	20-out-05	5,7	55,5	51,0	900,0	85,3
1986	20-out-05	4,2	65,0	51,0	960,0	91,4	2091	20-out-05	4,6	59,5	51,0	997,0	85,3	2196	20-out-05	4,7	61,2	51,0	900,0	85,3
1987	20-out-05	4,4	60,7	51,0	994,0	85,3	2092	20-out-05	4,4	58,7	51,0	999,0	85,3	2197	20-out-05	4,8	61,4	51,0	974,0	85,3
1988	20-out-05	3,8	58,7	51,0	995,0	91,4	2093	20-out-05	5,0	66,9	51,0	990,0	85,3	2198	20-out-05	4,6	54,7	51,0	999,0	85,3
1989	20-out-05	4,2	64,4	51,0	994,0	91,4	2094	20-out-05	3,9	60,1	51,0	999,0	85,3	2199	20-out-05	5,6	56,8	51,0	990,0	85,3
2200	20-out-05	5,1	59,1	51,0	999,0	85,3	2305	20-out-05	6,1	60,0	51,0	995,0	85,3	2410	20-out-05	4,8	59,2	51,0	792,0	91,4
2201	20-out-05	5,0	63,1	51,0	996,0	85,3	2306	20-out-05	7,4	65,6	51,0	997,0	85,3	2411	20-out-05	4,6	58,0	51,0	993,0	91,4
2202	20-out-05	4,4	65,6	51,0	973,0	85,3	2307	20-out-05	5,5	79,2	51,0	997,0	85,3	2412	20-out-05	3,9	58,6	51,0	993,0	91,4
2203	20-out-05	4,2	59,4	51,0	932,0	85,3	2308	20-out-05	4,6	62,8	51,0	999,0	85,3	2413	20-out-05	4,6	64,1	51,0	902,0	91,4
2204	20-out-05	5,2	57,9	51,0	999,0	85,3	2309	20-out-05	5,5	58,1	51,0	993,0	85,3	2414	20-out-05	3,9	59,4	51,0	997,0	91,4
2205	20-out-05	4,6	55,9	51,0	999,0	85,3	2310	20-out-05	5,5	75,0	51,0	996,0	85,3	2415	20-out-05	4,1	57,0	51,0	995,0	91,4
2206	20-out-05	4,3	64,6	51,0	994,0	85,3	2311	20-out-05	4,3	66,3	51,0	915,0	85,3	2416	20-out-05	4,3	58,2	51,0	963,0	91,4
2207	20-out-05	4,6	59,4	51,0	990,0	85,3	2312	20-out-05	5,6	63,5	51,0	966,0	85,3	2417	20-out-05	4,6	58,8	51,0	990,0	91,4
2208	20-out-05	4,1	56,7	51,0	994,0	85,3	2313	20-out-05	4,4	57,5	51,0	994,0	85,3	2418	20-out-05	5,0	66,5	51,0	900,0	91,4
2209	20-out-05	5,2	54,6	51,0	993,0	85,3	2314	20-out-05	5,6	59,3	51,0	990,0	85,3	2419	20-out-05	4,6	59,2	51,0	999,0	91,4
2210	20-out-05	4,4	58,5	51,0	991,0	85,3	2315	20-out-05	4,2	55,9	51,0	995,0	85,3	2420	20-out-05	4,8	55,6	51,0	999,0	91,4
2211	20-out-05	5,0	64,2	51,0	999,0	85,3	2316	20-out-05	6,0	67,5	51,0	965,0	85,3	2421	20-out-05	5,2	56,9	51,0	997,0	91,4
2212	20-out-05	4,3	61,5	51,0	997,0	85,3	2317	20-out-05	4,4	65,4	51,0	994,0	85,3	2422	20-out-05	4,3	62,2	51,0	969,0	85,3
2213	20-out-05	5,0	57,5	51,0	994,0	85,3	2318	20-out-05	4,3	59,7	51,0	795,0	85,3	2423	20-out-05	5,0	59,0	51,0	900,0	91,4
2214	20-out-05	5,0	50,8	51,0	995,0	85,3	2319	20-out-05	5,1	52,7	51,0	995,0	85,3	2424	20-out-05	5,5	62,3	51,0	994,0	91,4
2215	20-out-05	4,7	61,6	51,0	996,0	85,3	2320	20-out-05	4,8	58,9	51,0	900,0	85,3	2425	20-out-05	4,8	64,9	51,0	900,0	91,4
2216	20-out-05	5,1	62,5	51,0	990,0	85,3	2321	20-out-05	4,7	61,4	51,0	902,0	85,3	2426	20-out-05	4,3	54,9	51,0	996,0	91,4
2217	20-out-05	4,3	63,8	51,0	994,0	85,3	2322	20-out-05	4,6	63,5	51,0	939,0	85,3	2427	20-out-05	4,6	57,0	51,0	993,0	91,4
2218	20-out-05	4,3	56,9	51,0	733,0	85,3	2323	20-out-05	4,4	66,8	51,0	996,0	85,3	2428	20-out-05	4,6	57,0	51,0	993,0	91,4
2219	20-out-05	4,6	51,7	51,0	994,0	95,2	2324	20-out-05	4,7	51,7	51,0	900,0	85,3	2429	20-out-05	4,2	65,2	51,0	995,0	91,4
2220	20-out-05	4,6	59,6	51,0	996,0	85,3	2325	20-out-05	4,6	57,2	51,0	992,0	85,3	2430	20-out-05	5,0	58,0	51,0	971,0	91,4
2221	20-out-05	7,2	61,7	51,0	953,0	85,3	2326	20-out-05	4,3	66,8	51,0	999,0	85,3	2431	20-out-05	4,7	57,8	51,0	992,0	91,4
2222	20-out-05	4,3	60,3	51,0	956,0	85,3	2327	20-out-05	6,4	63,3	51,0	973,0	85,3	2432	20-out-05	4,8	63,2	51,0	995,0	91,4
2223	20-out-05	5,6	54,0	51,0	994,0	85,3	2328	20-out-05	6,2	65,0	51,0	990,0	85,3	2433	20-out-05	3,8	63,2	51,0	996,0	91,4
2224	20-out-05	5,3	56,4	51,0	996,0	85,3	2329	20-out-05	5,0	60,6	51,0	990,0	85,3	2434	20-out-05	4,4	57,3	51,0	991,0	91,4
2225	20-out-05	4,8	62,6	51,0	993,0	85,3	2330	20-out-05	5,3	63,9	51,0	997,0	85,3	2435	20-out-05	4,3	59,4	51,0	994,0	91,4
2226	20-out-05	4,7	62,4	51,0	995,0	85,3	2331	20-out-05	4,4	54,9	51,0	992,0	85,3	2436	20-out-05	4,8	57,7	51,0	996,0	91,4
2227	20-out-05	4,7	59,5	51,0	797,0	85,3	2332	20-out-05	5,0	61,1	51,0	953,0	85,3	2437	20-out-05	3,6	57,6	51,0	996,0	91,4
2228	20-out-05	5,6	59,1	51,0	933,0	85,3	2333	20-out-05	4,3	58,3	51,0	900,0	85,3	2438	20-out-05	4,7	61,2	51,0	994,0	91,4
2229	20-out-05	4,4	62,7	51,0	993,0	85,3	2334	20-out-05	6,1	63,4	51,0	927,0	85,3	2439	20-out-05	4,7	55,5	51,0	994,0	91,4
2230	20-out-05	4,8	62,2	51,0	999,0	85,3	2335	20-out-05	4,6	57,0	51,0	992,0	85,3	2440	20-out-05	4,8	62,2	51,0	997,0	91,4
2231	20-out-05	4,8	64,2	51,0	994,0	85,3	2336	20-out-05	3,8	55,7	51,0	997,0	85,3	2441	20-out-05	5,6	64,9	51,0	936,0	91,4
2232	20-out-05	4,7	68,4	51,0	901,0	85,3	2337	20-out-05	4,7	68,9	51,0	995,0	85,3	2442	20-out-05	4,6	62,6	51,0	954,0	91,4
2233	20-out-05	4,6	60,8	51,0	999,0	85,3	2338	20-out-05	4,6	65,2	51,0	995,0	85,3	2443	20-out-05	4,7	62,1	51,0	994,0	91,4
2234	20-out-05	4,6	58,4	51,0	977,0	85,3	2339	20-out-05	4,1	60,6	51,0	934,0	85,3	2444	20-out-05	4,6	53,5	51,0	996,0	91,4
2235	20-out-05	4,7	59,5	51,0	997,0	85,3	2340	20-out-05	4,6	56,5	51,0	993,0	85,3	2445	20-out-05	4,8	58,4	51,0	995,0	91,4
2236	20-out-05	4,4	62,2	51,0	994,0	85,3	2341	20-out-05	4,2	58,0	51,0	997,0								

2246	20-out-05	4,7	64,1	51,0	994,0	85,3	2351	20-out-05	4,1	55,6	51,0	993,0	85,3	2456	20-out-05	4,6	67,9	51,0	900,0	91,4
2247	20-out-05	5,3	61,7	51,0	999,0	85,3	2352	20-out-05	4,3	54,9	51,0	992,0	91,4	2457	20-out-05	4,2	56,2	51,0	940,0	91,4
2248	20-out-05	4,3	57,7	51,0	996,0	85,3	2353	20-out-05	4,1	54,8	51,0	939,0	85,3	2458	20-out-05	7,5	64,5	51,0	995,0	85,3
2249	20-out-05	4,8	51,8	51,0	999,0	85,3	2354	20-out-05	4,1	56,1	51,0	962,0	85,3	2459	20-out-05	4,8	55,0	51,0	995,0	85,3
2250	20-out-05	4,8	59,9	51,0	992,0	85,3	2355	20-out-05	4,1	52,1	51,0	993,0	85,3	2460	20-out-05	4,2	64,8	51,0	994,0	91,4
2251	20-out-05	4,3	57,7	51,0	962,0	85,3	2356	20-out-05	4,2	57,2	51,0	969,0	91,4	2461	20-out-05	4,6	71,5	51,0	994,0	91,4
2252	20-out-05	3,9	60,0	51,0	997,0	85,3	2357	20-out-05	4,1	54,6	51,0	967,0	91,4	2462	20-out-05	4,4	61,8	51,0	995,0	91,4
2253	20-out-05	5,1	54,7	51,0	936,0	95,2	2358	20-out-05	4,2	58,9	51,0	995,0	85,3	2463	20-out-05	5,8	60,0	51,0	995,0	91,4
2254	20-out-05	4,4	53,5	51,0	996,0	85,3	2359	20-out-05	4,6	57,4	51,0	996,0	91,4	2464	20-out-05	4,8	57,0	51,0	993,0	85,3
2255	20-out-05	4,3	56,3	51,0	994,0	85,3	2360	20-out-05	3,7	55,1	51,0	996,0	85,3	2465	20-out-05	4,6	58,6	51,0	995,0	91,4
2256	20-out-05	4,3	62,0	51,0	976,0	85,3	2361	20-out-05	4,4	61,8	51,0	994,0	91,4	2466	20-out-05	4,1	68,4	51,0	994,0	91,4
2257	20-out-05	4,7	62,3	51,0	992,0	85,3	2362	20-out-05	4,1	64,5	51,0	900,0	91,4	2467	20-out-05	4,4	62,6	51,0	900,0	85,3
2258	20-out-05	5,3	55,2	51,0	993,0	95,2	2363	20-out-05	4,6	56,5	51,0	900,0	91,4	2468	20-out-05	4,4	58,6	51,0	903,0	85,3
2259	20-out-05	5,2	54,5	51,0	992,0	85,3	2364	20-out-05	4,4	56,4	51,0	997,0	91,4	2469	20-out-05	34,5	57,7	51,0	995,0	91,4
2260	20-out-05	4,6	58,4	51,0	992,0	85,3	2365	20-out-05	4,1	53,5	51,0	994,0	91,4	2470	20-out-05	34,8	55,6	51,0	991,0	85,3
2261	20-out-05	5,3	60,1	51,0	999,0	85,3	2366	20-out-05	4,4	54,9	51,0	900,0	91,4	2471	20-out-05	34,8	64,6	51,0	995,0	91,4
2262	20-out-05	4,7	65,2	51,0	736,0	85,3	2367	20-out-05	4,2	55,3	51,0	900,0	91,4	2472	20-out-05	35,1	57,9	51,0	959,0	85,3
2263	20-out-05	5,0	54,3	51,0	997,0	95,2	2368	20-out-05	4,7	61,2	51,0	973,0	91,4	2473	20-out-05	34,7	56,9	51,0	991,0	85,3
2264	20-out-05	4,6	59,1	51,0	997,0	85,3	2369	20-out-05	3,8	57,2	51,0	901,0	91,4	2474	20-out-05	34,8	58,7	51,0	979,0	85,3
2265	20-out-05	4,2	58,8	51,0	996,0	85,3	2370	20-out-05	4,4	54,5	51,0	994,0	91,4	2475	20-out-05	34,8	61,1	50,0	999,0	91,4
2266	20-out-05	5,3	58,7	51,0	994,0	85,3	2371	20-out-05	4,7	56,7	51,0	999,0	91,4	2476	20-out-05	6,0	66,8	51,0	995,0	91,4
2267	20-out-05	4,7	66,8	51,0	937,0	95,2	2372	20-out-05	3,9	56,7	51,0	900,0	91,4	2477	20-out-05	5,5	61,8	51,0	994,0	91,4
2268	20-out-05	5,6	58,6	51,0	994,0	85,3	2373	20-out-05	4,7	60,3	51,0	900,0	91,4	2478	20-out-05	4,1	56,6	51,0	995,0	91,4
2269	20-out-05	4,4	52,2	51,0	953,0	85,3	2374	20-out-05	4,3	58,3	51,0	992,0	91,4	2479	20-out-05	5,1	54,1	51,0	995,0	91,4
2270	20-out-05	4,2	59,0	51,0	990,0	85,3	2375	20-out-05	4,2	57,7	51,0	999,0	91,4	2480	20-out-05	4,7	63,1	51,0	999,0	91,4
2271	20-out-05	8,0	66,6	51,0	964,0	85,3	2376	20-out-05	5,0	53,9	51,0	996,0	85,3	2481	20-out-05	4,3	60,9	51,0	991,0	91,4
2272	20-out-05	4,3	56,6	51,0	993,0	85,3	2377	20-out-05	4,3	55,4	51,0	997,0	91,4	2482	20-out-05	5,1	59,1	51,0	997,0	91,4
2273	20-out-05	4,6	60,0	51,0	999,0	85,3	2378	20-out-05	4,3	62,8	51,0	999,0	91,4	2483	20-out-05	3,8	65,2	51,0	950,0	91,4
2274	20-out-05	4,8	53,0	51,0	902,0	95,2	2379	20-out-05	4,4	57,6	51,0	965,0	91,4	2484	20-out-05	5,5	63,2	51,0	979,0	91,4
2275	20-out-05	5,2	57,5	51,0	991,0	85,3	2380	20-out-05	4,6	59,6	51,0	999,0	91,4	2485	20-out-05	4,7	54,4	50,0	995,0	91,4
2276	20-out-05	5,1	65,3	51,0	995,0	85,3	2381	20-out-05	5,0	62,4	51,0	993,0	91,4	2486	20-out-05	4,2	60,8	51,0	997,0	91,4
2277	20-out-05	4,3	59,9	51,0	979,0	85,3	2382	20-out-05	4,7	56,1	51,0	994,0	91,4	2487	20-out-05	4,1	60,4	50,0	999,0	91,4
2278	20-out-05	4,7	53,6	51,0	999,0	95,2	2383	20-out-05	5,0	58,0	51,0	970,0	91,4	2488	20-out-05	5,1	55,5	51,0	917,0	91,4
2279	20-out-05	5,2	57,4	51,0	994,0	85,3	2384	20-out-05	4,4	57,4	51,0	996,0	91,4	2489	20-out-05	4,7	53,0	51,0	997,0	91,4
2280	20-out-05	5,8	59,1	51,0	996,0	85,3	2385	20-out-05	4,3	55,5	51,0	992,0	85,3	2490	20-out-05	4,8	63,7	51,0	997,0	91,4
2281	20-out-05	5,2	61,8	51,0	954,0	85,3	2386	20-out-05	3,8	58,3	51,0	996,0	91,4	2491	20-out-05	4,4	60,8	51,0	999,0	91,4
2282	20-out-05	4,8	55,1	51,0	992,0	85,3	2387	20-out-05	3,7	65,4	51,0	994,0	91,4	2492	20-out-05	4,1	62,0	51,0	991,0	91,4
2283	20-out-05	6,4	59,8	51,0	995,0	85,3	2388	20-out-05	4,8	61,4	51,0	994,0	91,4	2493	20-out-05	5,0	55,6	51,0	946,0	91,4
2284	20-out-05	4,6	59,5	51,0	994,0	85,3	2389	20-out-05	4,6	55,7	51,0	996,0	91,4	2494	20-out-05	4,3	53,2	51,0	999,0	91,4
2285	20-out-05	5,1	62,8	51,0	902,0	85,3	2390	20-out-05	4,4	59,3	51,0	991,0	91,4	2495	20-out-05	4,7	61,5	51,0	995,0	91,4
2286	20-out-05	4,7	60,7	51,0	993,0	85,3	2391	20-out-05	5,2	67,6	51,0	994,0	91,4	2496	20-out-05	4,8	69,2	51,0	996,0	91,4
2287	20-out-05	5,0	70,8	51,0	992,0	85,3	2392	20-out-05	4,3	58,5	51,0	960,0	91,4	2497	20-out-05	4,2	70,4	51,0	996,0	91,4
2288	20-out-05	5,0	55,8	51,0	994,0	85,3	2393	20-out-05	4,7	54,2	51,0	991,0	91,4	2498	20-out-05	5,5	57,0	50,0	997,0	91,4
2289	20-out-05	4,7	57,9	51,0	995,0	85,3	2394	20-out-05	3,7	54,7	51,0	900,0	85,3	2499	20-out-05	4,6	54,4	51,0	999,0	91,4
2290	20-out-05	4,7	64,1	51,0	991,0	85,3	2395	20-out-05	5,1	62,2	51,0	977,0	91,4	2500	20-out-05	5,7	57,0	51,0	901,0	91,4
2291	20-out-05	5,3	72,0	51,0	960,0	85,3	2396	20-out-05	4,6	61,4	51,0	994,0	91,4	2501	20-out-05	4,6	68,1	51,0	994,0	91,4
2292	20-out-05	4,2	60,3	51,0	976,0	85,3	2397	20-out-05	4,1	58,5	51,0	994,0	91,4	2502	20-out-05	4,2	62,1	51,0	994,0	91,4
2293	20-out-05	4,8	58,7	51,0	996,0	85,3	2398	20-out-05	5,1	55,8	51,0	999,0	91,4	2503	20-out-05	5,7	58,1	51,0	910,0	91,4
2294	20-out-05	4,4	57,8	51,0	997,0	85,3	2399	20-out-05	3,7	59,2	51,0	997,0	91,4	2504	20-out-05	4,3	55,0	51,0	671,0	91,4
2295	20-out-05	4,4	61,5	51,0	994,0	85,3	2400	20-out-05	4,1	60,8	51,0	993,0	91,4	2505	20-out-05	4,1	60,5	51,0	993,0	91,4
2296	20-out-05	5,5	71,4	51,0	967,0	85,3	2401	20-out-05	4,3	60,0	51,0	955,0	91,4	2506	20-out-05	5,1	69,6	51,0	991,0	91,4
2297	20-out-05	6,1	78,9	51,0	955,0	85,3	2402	20-out-05	5,3	63,4	51,0	996,0	91,4	2507	20-out-05	4,8	61,8	51,0	999,0	91,4
2298	20-out-05	5,0	65,9	51,0	997,0	85,3	2403	20-out-05	4,3	58,1	51,0	969,0	91,4	2508	20-out-05	5,0	62,1	51,0	930,0	91,4
2299	20-out-05	5,3	56,9	51,0	994,0	85,3	2404	20-out-05	3,8	53,1	51,0	994,0	91,4	2509	20-out-05	4,8	54,4	51,0	971,0	91,4
2300	20-out-05	4,8	65,0	51,0	901,0	85,3	2405	20-out-05	4,7	55,8	51,0	990,0	91,4	2510	20-out-05	3,9	60,1	51,0	997,0	91,4
2301	20-out-05	5,8	63,0	51,0	952,0	85,3	2406	20-out-05	4,2	61,5	51,0	999,0	91,4	2511	20-out-05	5,5	58,5	50,0	994,0	91,4
2302	20-out-05	4,6	58,3	51,0	992,0	85,3	2407	20-out-05	5,0	54,3	51,0	999,0	91,4	2512	20-out-05	5,2	60,6	51,0	994,0	91,4
2303	20-out-05	4,7	72,8	51,0	990,0	85,3	2408	20-out-05	4,4	55,8	51,0	994,0	85,3	2513	20-out-05	5,3	56,6	51,0	744,0	91,4
2304	20-out-05	5,6	61,2	51,0	997,0	85,3	2409	20-out-05	4,1	55,1	51,0	952,0	85,3	2514	20-out-05	4,4	63,9	51,0	999,0	91,4
2515	20-out-05	4,2	55,4	51,0	999,0	91,4	2620	20-out-05	4,1	51,1	50,0	997,0	85,3	2725	20-out-05	4,4	60,4	48,0	990,0	84,8
2516	20-out-05	5,5	67,9	51,0	994,0	91,4	2621	20-out-05	5,3	67,4	51,0	993,0	91,4	2726	20-out-05	4,7	55,0	48,0	994,0	94,7
2517	20-out-05	5,1	66,6	51,0	996,0	91,4	2622	20-out-05	4,7	66,7	51,0	9								

2527	20-out-05	4,2	59,4	51,0	994,0	91,4	2632	20-out-05	4,7	67,0	51,0	994,0	85,0	2737	20-out-05	6,0	63,3	48,0	952,0	84,8
2528	20-out-05	5,6	57,0	51,0	959,0	91,4	2633	20-out-05	5,5	58,0	51,0	992,0	85,0	2738	20-out-05	5,3	51,5	48,0	994,0	94,7
2529	20-out-05	5,8	55,4	51,0	994,0	91,4	2634	20-out-05	4,6	58,9	51,0	995,0	85,0	2739	20-out-05	5,3	61,2	48,0	994,0	85,1
2530	20-out-05	5,0	52,4	51,0	992,0	91,4	2635	20-out-05	4,1	57,4	51,0	996,0	85,0	2740	20-out-05	4,6	62,8	48,0	990,0	85,1
2531	20-out-05	4,7	74,7	51,0	994,0	91,4	2636	20-out-05	5,2	61,7	51,0	994,0	85,0	2741	20-out-05	4,4	63,1	48,0	994,0	85,0
2532	20-out-05	5,1	62,7	51,0	996,0	91,4	2637	20-out-05	4,2	55,7	51,0	997,0	85,0	2742	20-out-05	6,0	60,5	48,0	959,0	96,6
2533	20-out-05	5,7	63,0	50,0	997,0	91,4	2638	20-out-05	4,4	61,2	51,0	996,0	85,0	2743	20-out-05	4,7	49,8	48,0	919,0	88,6
2534	20-out-05	5,1	54,9	50,0	912,0	85,3	2639	20-out-05	4,7	60,9	51,0	996,0	85,0	2744	20-out-05	6,0	53,6	48,0	994,0	88,6
2535	20-out-05	4,6	51,9	51,0	996,0	91,4	2640	20-out-05	3,8	56,6	50,0	747,0	85,0	2745	20-out-05	4,7	52,2	48,0	990,0	96,7
2536	20-out-05	4,2	55,9	51,0	995,0	85,3	2641	20-out-05	3,8	55,7	50,0	997,0	85,0	2746	20-out-05	5,0	54,0	48,0	990,0	88,6
2537	20-out-05	4,2	60,6	51,0	996,0	91,4	2642	20-out-05	3,9	56,9	50,0	996,0	85,0	2747	20-out-05	5,1	55,9	48,0	990,0	88,6
2538	20-out-05	5,1	69,9	51,0	952,0	91,4	2643	20-out-05	4,3	62,5	50,0	994,0	85,0	2748	20-out-05	5,2	61,4	48,0	973,0	88,6
2539	20-out-05	4,7	61,9	51,0	995,0	91,4	2644	20-out-05	4,2	64,6	50,0	993,0	85,0	2749	20-out-05	4,6	59,7	48,0	973,0	88,6
2540	20-out-05	4,8	68,8	51,0	996,0	91,4	2645	20-out-05	4,1	57,5	50,0	995,0	85,0	2750	20-out-05	5,8	63,3	48,0	942,0	88,6
2541	20-out-05	4,6	61,8	51,0	996,0	91,4	2646	20-out-05	3,9	52,7	50,0	995,0	85,0	2751	20-out-05	5,5	60,4	48,0	901,0	88,6
2542	20-out-05	5,1	57,2	51,0	995,0	85,3	2647	20-out-05	3,9	61,0	49,0	991,0	85,0	2752	20-out-05	3,9	48,8	48,0	979,0	88,6
2543	20-out-05	4,8	56,2	51,0	995,0	91,4	2648	20-out-05	5,1	68,6	49,0	994,0	85,0	2753	20-out-05	5,3	49,1	48,0	901,0	88,6
2544	20-out-05	4,8	54,0	51,0	993,0	91,4	2649	20-out-05	4,8	59,9	49,0	969,0	85,1	2754	20-out-05	5,7	53,9	48,0	994,0	88,6
2545	20-out-05	4,1	62,9	51,0	994,0	91,4	2650	20-out-05	5,7	61,5	49,0	999,0	85,0	2755	20-out-05	3,7	58,3	48,0	993,0	88,6
2546	20-out-05	4,8	67,4	50,0	991,0	91,4	2651	20-out-05	4,4	58,2	49,0	999,0	85,0	2756	20-out-05	5,0	60,4	48,0	991,0	96,7
2547	20-out-05	5,8	63,7	51,0	976,0	91,4	2652	20-out-05	4,6	57,6	49,0	965,0	85,0	2757	20-out-05	5,6	67,4	48,0	976,0	88,6
2548	20-out-05	6,5	61,1	51,0	992,0	91,4	2653	20-out-05	5,8	58,7	49,0	992,0	85,0	2758	20-out-05	5,6	56,0	48,0	994,0	88,6
2549	20-out-05	4,1	57,4	51,0	995,0	91,4	2654	20-out-05	5,5	57,5	49,0	974,0	85,0	2759	20-out-05	5,6	55,9	48,0	939,0	88,6
2550	20-out-05	5,3	69,0	51,0	994,0	91,4	2655	20-out-05	5,0	63,2	49,0	996,0	85,0	2760	20-out-05	6,1	54,2	48,0	993,0	88,6
2551	20-out-05	4,3	62,4	51,0	997,0	91,4	2656	20-out-05	4,6	53,9	49,0	994,0	85,0	2761	20-out-05	5,2	54,7	48,0	990,0	88,6
2552	20-out-05	5,5	69,6	51,0	999,0	91,4	2657	20-out-05	4,7	64,5	49,0	996,0	85,0	2762	20-out-05	3,9	54,5	48,0	993,0	88,6
2553	20-out-05	4,4	53,7	51,0	977,0	91,4	2658	20-out-05	4,4	58,0	49,0	993,0	85,0	2763	20-out-05	4,6	53,1	48,0	990,0	88,6
2554	20-out-05	4,2	58,8	51,0	994,0	91,4	2659	20-out-05	5,0	60,4	49,0	993,0	85,0	2764	20-out-05	5,2	59,2	48,0	992,0	88,6
2555	20-out-05	3,9	55,7	51,0	994,0	91,4	2660	20-out-05	5,2	58,2	49,0	992,0	85,0	2765	20-out-05	5,1	53,0	48,0	993,0	88,6
2556	20-out-05	4,1	66,3	51,0	993,0	91,4	2661	20-out-05	5,5	55,3	49,0	999,0	85,0	2766	20-out-05	5,2	54,4	48,0	993,0	88,6
2557	20-out-05	4,4	65,6	51,0	994,0	91,4	2662	20-out-05	4,8	59,8	49,0	992,0	85,0	2767	20-out-05	3,8	55,7	48,0	997,0	88,6
2558	20-out-05	4,8	57,6	51,0	999,0	91,4	2663	20-out-05	4,6	56,4	49,0	994,0	85,0	2768	20-out-05	5,2	54,0	48,0	991,0	88,6
2559	20-out-05	4,4	55,0	51,0	992,0	91,4	2664	20-out-05	3,9	55,7	49,0	993,0	85,0	2769	20-out-05	4,8	53,2	48,0	992,0	88,6
2560	20-out-05	4,2	66,1	51,0	992,0	91,4	2665	20-out-05	5,0	58,4	49,0	963,0	85,0	2770	20-out-05	4,4	57,1	48,0	994,0	88,6
2561	20-out-05	4,4	63,3	51,0	996,0	91,4	2666	20-out-05	4,3	59,2	49,0	954,0	85,0	2771	20-out-05	5,6	55,5	48,0	996,0	88,6
2562	20-out-05	5,0	59,6	51,0	994,0	91,4	2667	20-out-05	4,7	62,4	49,0	999,0	85,0	2772	20-out-05	6,7	56,7	48,0	950,0	88,6
2563	20-out-05	5,1	57,2	51,0	999,0	91,4	2668	20-out-05	4,6	58,7	49,0	994,0	85,0	2773	20-out-05	4,8	56,4	48,0	999,0	88,6
2564	20-out-05	5,0	57,4	51,0	996,0	91,4	2669	20-out-05	5,5	64,6	49,0	994,0	85,0	2774	20-out-05	4,7	55,4	48,0	995,0	88,6
2565	20-out-05	5,1	63,1	51,0	993,0	91,4	2670	20-out-05	4,7	53,4	49,0	900,0	85,0	2775	20-out-05	5,1	58,8	48,0	949,0	88,6
2566	20-out-05	4,8	61,5	51,0	996,0	91,4	2671	20-out-05	4,7	68,7	49,0	900,0	85,1	2776	20-out-05	4,3	54,2	48,0	992,0	88,6
2567	20-out-05	5,1	70,8	51,0	996,0	91,4	2672	20-out-05	5,2	57,7	49,0	900,0	85,0	2777	20-out-05	4,6	59,8	48,0	993,0	88,6
2568	20-out-05	4,6	54,8	51,0	951,0	91,4	2673	20-out-05	4,3	57,3	49,0	995,0	85,0	2778	20-out-05	4,6	53,3	48,0	995,0	88,6
2569	20-out-05	4,8	64,0	51,0	997,0	91,4	2674	20-out-05	5,0	59,0	49,0	990,0	85,0	2779	20-out-05	4,7	62,9	48,0	994,0	88,6
2570	20-out-05	5,7	58,2	51,0	900,0	91,4	2675	20-out-05	4,6	55,6	49,0	992,0	85,0	2780	20-out-05	4,3	62,2	48,0	964,0	88,6
2571	20-out-05	5,2	64,9	51,0	992,0	91,4	2676	20-out-05	5,0	63,7	48,0	961,0	85,0	2781	20-out-05	4,7	52,5	48,0	992,0	88,6
2572	20-out-05	5,2	64,9	51,0	992,0	91,4	2677	20-out-05	6,0	59,5	49,0	997,0	85,0	2782	20-out-05	5,0	53,7	48,0	994,0	88,6
2573	20-out-05	4,3	65,7	51,0	943,0	91,4	2678	20-out-05	4,7	57,1	49,0	994,0	85,0	2783	20-out-05	4,8	53,9	48,0	905,0	88,6
2574	20-out-05	4,2	62,0	51,0	949,0	91,4	2679	20-out-05	4,3	54,6	48,0	995,0	85,0	2784	20-out-05	5,2	52,5	48,0	932,0	88,6
2575	20-out-05	4,4	54,6	51,0	999,0	85,3	2680	20-out-05	5,7	55,9	49,0	993,0	85,0	2785	20-out-05	4,8	52,5	48,0	994,0	88,6
2576	20-out-05	5,5	62,4	51,0	996,0	91,4	2681	20-out-05	4,4	60,9	49,0	994,0	85,0	2786	20-out-05	4,2	53,2	48,0	995,0	88,6
2577	20-out-05	4,3	61,0	51,0	994,0	91,4	2682	20-out-05	5,8	56,6	49,0	992,0	85,0	2787	20-out-05	4,3	47,8	48,0	924,0	88,6
2578	20-out-05	4,2	56,2	51,0	993,0	91,4	2683	20-out-05	5,6	58,9	49,0	996,0	85,0	2788	20-out-05	5,2	53,6	48,0	993,0	88,6
2579	20-out-05	4,4	65,0	51,0	994,0	91,4	2684	20-out-05	4,8	57,1	49,0	992,0	85,0	2789	20-out-05	4,1	55,5	48,0	996,0	88,6
2580	20-out-05	4,1	56,7	51,0	914,0	91,4	2685	20-out-05	5,8	59,6	48,0	996,0	85,0	2790	20-out-05	5,0	54,6	48,0	994,0	88,6
2581	20-out-05	4,2	58,9	51,0	990,0	91,4	2686	20-out-05	4,8	59,0	48,0	924,0	85,0	2791	20-out-05	4,6	52,0	48,0	996,0	88,6
2582	20-out-05	4,2	56,0	51,0	999,0	91,4	2687	20-out-05	4,4	53,4	48,0	994,0	85,0	2792	20-out-05	5,1	57,8	48,0	993,0	88,6
2583	20-out-05	4,4	59,7	51,0	997,0	91,4	2688	20-out-05	5,8	57,7	49,0	995,0	85,0	2793	20-out-05	5,1	57,8	48,0	993,0	88,6
2584	20-out-05	4,3	56,7	51,0	994,0	91,4	2689	20-out-05	4,7	62,7	48,0	999,0	85,0	2794	20-out-05	4,4	54,9	48,0	940,0	88,6
2585	20-out-05	4,7	57,2	51,0	992,0	91,4	2690	20-out-05	5,7	54,6	48,0	961,0	85,0	2795	20-out-05	4,4	56,5	48,0	952,0	88,6
2586	20-out-05	4,3	55,1	51,0	967,0	85,3	2691	20-out-05	5,8	57,8	49,0	901,0	85,0	2796	20-out-05	4,4	57,3	48,0	900,0	88,6
2587	20-out-05	4,7	58,6	51,0	995,0	91,4	2692	20-out-05	5,2	50,7	49,0	990,0	85,0	2797	20-out-05	4,3	52,3	48,0	995,0	88,6
2588	20-out-05	4,3	59,6	51,0	994,0	91,4	2693	20-out-05	6,1	55,1	48,0	994,0								

2598	20-out-05	4,1	58,6	51,0	993,0	91,4	2703	20-out-05	5,3	58,6	48,0	902,0	85,0	2808	20-out-05	3,9	51,1	48,0	956,0	88,6
2599	20-out-05	5,1	60,2	51,0	995,0	91,4	2704	20-out-05	5,1	68,2	49,0	972,0	85,0	2809	20-out-05	4,8	50,6	48,0	994,0	88,6
2600	20-out-05	4,3	64,1	51,0	994,0	91,4	2705	20-out-05	4,6	56,2	49,0	997,0	85,0	2810	20-out-05	4,6	52,6	48,0	996,0	88,6
2601	20-out-05	4,8	70,4	51,0	946,0	91,4	2706	20-out-05	5,0	60,4	48,0	996,0	85,0	2811	20-out-05	4,8	50,1	48,0	991,0	88,6
2602	20-out-05	3,8	60,8	51,0	965,0	85,3	2707	20-out-05	4,7	50,1	49,0	997,0	85,0	2812	20-out-05	4,6	55,0	48,0	997,0	88,6
2603	20-out-05	4,7	58,2	51,0	992,0	85,3	2708	20-out-05	5,6	59,6	48,0	977,0	85,0	2813	20-out-05	5,0	56,2	48,0	994,0	88,6
2604	20-out-05	4,7	56,7	51,0	991,0	91,4	2709	20-out-05	5,2	64,9	48,0	962,0	85,0	2814	20-out-05	4,3	59,4	48,0	993,0	88,6
2605	20-out-05	5,0	59,4	51,0	971,0	91,4	2710	20-out-05	5,6	58,2	48,0	990,0	85,0	2815	20-out-05	4,3	61,2	48,0	966,0	88,6
2606	20-out-05	4,6	64,9	51,0	997,0	91,4	2711	20-out-05	4,3	57,4	48,0	994,0	85,0	2816	20-out-05	4,4	54,5	48,0	970,0	88,6
2607	20-out-05	4,7	62,6	51,0	712,0	91,4	2712	20-out-05	5,2	53,5	48,0	993,0	85,0	2817	20-out-05	4,3	49,8	48,0	992,0	88,6
2608	20-out-05	4,2	64,2	51,0	991,0	91,4	2713	20-out-05	6,0	61,2	48,0	994,0	85,0	2818	20-out-05	4,6	51,7	48,0	937,0	88,6
2609	20-out-05	5,3	64,7	51,0	994,0	91,4	2714	20-out-05	4,6	59,8	48,0	939,0	85,0	2819	20-out-05	3,6	47,9	48,0	999,0	88,6
2610	20-out-05	4,8	56,2	51,0	995,0	91,4	2715	20-out-05	5,5	48,2	48,0	991,0	85,0	2820	20-out-05	4,7	50,1	48,0	999,0	88,6
2611	20-out-05	4,8	66,0	51,0	900,0	91,4	2716	20-out-05	3,9	52,9	48,0	992,0	94,7	2821	20-out-05	3,8	54,3	48,0	992,0	88,6
2612	20-out-05	4,8	57,2	51,0	957,0	91,4	2717	20-out-05	4,4	59,1	48,0	996,0	84,8	2822	20-out-05	4,6	55,8	48,0	923,0	88,6
2613	20-out-05	3,9	56,8	51,0	990,0	91,4	2718	20-out-05	5,6	63,7	48,0	959,0	94,7	2823	20-out-05	3,9	55,1	48,0	997,0	88,6
2614	20-out-05	5,5	62,1	51,0	999,0	91,4	2719	20-out-05	6,6	62,1	48,0	990,0	84,8	2824	20-out-05	4,2	56,5	48,0	996,0	88,6
2615	20-out-05	4,2	50,7	51,0	996,0	91,4	2720	20-out-05	5,6	47,4	48,0	995,0	94,7	2825	20-out-05	4,7	49,5	48,0	974,0	88,6
2616	20-out-05	4,8	59,6	51,0	992,0	91,4	2721	20-out-05	5,7	57,7	48,0	995,0	84,8	2826	20-out-05	4,8	50,3	48,0	999,0	88,6
2617	20-out-05	4,6	59,9	50,0	999,0	91,4	2722	20-out-05	4,1	58,4	48,0	995,0	84,8	2827	20-out-05	4,2	46,2	48,0	993,0	88,6
2618	20-out-05	4,4	64,8	51,0	994,0	91,4	2723	20-out-05	6,0	63,3	48,0	994,0	84,8	2828	20-out-05	4,3	52,1	48,0	992,0	88,6
2619	20-out-05	3,3	59,8	50,0	995,0	91,4	2724	20-out-05	6,2	55,6	49,0	792,0	94,7	2829	20-out-05	4,2	51,6	48,0	992,0	88,6
2830	20-out-05	4,8	57,7	48,0	992,0	88,6	2935	20-out-05	4,2	55,8	48,0	990,0	88,6	3040	20-out-05	5,1	59,0	51,0	776,0	91,0
2831	20-out-05	4,6	56,2	48,0	994,0	88,6	2936	20-out-05	3,8	55,5	48,0	990,0	88,6	3041	20-out-05	5,3	64,8	51,0	795,0	91,0
2832	20-out-05	4,8	54,7	48,0	994,0	88,6	2937	20-out-05	4,1	49,1	48,0	999,0	88,6	3042	20-out-05	5,0	59,2	51,0	993,0	91,0
2833	20-out-05	4,4	54,9	48,0	993,0	88,6	2938	20-out-05	4,3	53,8	48,0	994,0	88,6	3043	20-out-05	5,3	57,6	51,0	999,0	91,0
2834	20-out-05	4,8	51,5	48,0	999,0	88,6	2939	20-out-05	4,2	54,8	48,0	995,0	96,7	3044	20-out-05	4,8	58,2	51,0	995,0	90,9
2835	20-out-05	4,8	49,2	48,0	900,0	88,6	2940	20-out-05	3,9	52,8	48,0	759,0	88,6	3045	20-out-05	4,3	60,0	51,0	994,0	91,0
2836	20-out-05	4,1	54,9	48,0	996,0	88,6	2941	20-out-05	4,4	57,0	48,0	994,0	88,6	3046	20-out-05	5,2	61,8	51,0	991,0	90,9
2837	20-out-05	4,1	50,9	48,0	993,0	88,6	2942	20-out-05	4,1	56,2	48,0	994,0	88,6	3047	20-out-05	5,3	54,0	51,0	959,0	90,9
2838	20-out-05	5,2	51,3	48,0	990,0	88,6	2943	20-out-05	5,0	53,2	48,0	994,0	88,6	3048	20-out-05	4,1	58,4	51,0	979,0	91,0
2839	20-out-05	5,5	58,6	48,0	992,0	88,6	2944	20-out-05	4,2	51,7	48,0	993,0	88,6	3049	20-out-05	4,4	55,0	51,0	996,0	90,9
2840	20-out-05	5,5	52,9	48,0	994,0	88,6	2945	20-out-05	4,3	54,7	48,0	992,0	88,6	3050	20-out-05	4,2	56,3	51,0	995,0	90,9
2841	20-out-05	5,1	60,9	48,0	992,0	88,6	2946	20-out-05	3,8	53,7	48,0	994,0	88,6	3051	20-out-05	4,8	60,1	51,0	994,0	90,9
2842	20-out-05	4,4	61,9	48,0	993,0	88,6	2947	20-out-05	4,2	53,1	48,0	993,0	88,6	3052	20-out-05	5,0	55,1	51,0	997,0	90,9
2843	20-out-05	4,3	53,5	48,0	994,0	88,6	2948	20-out-05	4,1	55,9	48,0	994,0	88,6	3053	20-out-05	4,6	59,4	51,0	995,0	90,9
2844	20-out-05	4,7	60,9	48,0	994,0	88,6	2949	20-out-05	4,6	52,6	48,0	993,0	88,6	3054	20-out-05	4,7	56,9	51,0	900,0	90,9
2845	20-out-05	3,8	61,4	48,0	761,0	88,6	2950	20-out-05	3,9	58,4	48,0	993,0	88,6	3055	20-out-05	5,3	61,7	51,0	995,0	90,9
2846	20-out-05	4,1	55,6	48,0	963,0	88,6	2951	20-out-05	4,6	52,2	48,0	963,0	88,6	3056	20-out-05	4,8	57,1	51,0	993,0	91,0
2847	20-out-05	4,7	50,1	48,0	977,0	88,6	2952	20-out-05	4,2	50,8	48,0	979,0	88,6	3057	20-out-05	4,7	58,9	51,0	999,0	91,0
2848	20-out-05	4,1	51,6	48,0	992,0	88,6	2953	20-out-05	5,0	52,7	48,0	979,0	88,6	3058	20-out-05	5,0	57,1	51,0	999,0	90,9
2849	20-out-05	4,8	51,3	48,0	993,0	88,6	2954	20-out-05	4,6	50,5	48,0	992,0	88,6	3059	20-out-05	6,6	58,2	51,0	995,0	91,0
2850	20-out-05	5,1	54,8	48,0	991,0	88,6	2955	20-out-05	4,2	49,9	48,0	999,0	88,6	3060	20-out-05	5,1	58,8	51,0	995,0	91,0
2851	20-out-05	4,4	52,9	48,0	993,0	96,7	2956	20-out-05	4,7	49,1	48,0	994,0	88,6	3061	20-out-05	4,7	56,6	51,0	790,0	90,9
2852	20-out-05	4,7	52,3	48,0	991,0	88,6	2957	20-out-05	4,1	54,9	48,0	994,0	88,6	3062	20-out-05	4,4	58,5	51,0	992,0	90,9
2853	20-out-05	4,3	52,3	48,0	990,0	88,6	2958	20-out-05	5,3	64,5	48,0	995,0	88,6	3063	20-out-05	4,7	57,9	51,0	990,0	91,0
2854	20-out-05	5,3	55,9	48,0	995,0	88,6	2959	20-out-05	3,6	54,9	48,0	991,0	88,6	3064	20-out-05	5,1	62,0	51,0	762,0	91,0
2855	20-out-05	5,2	55,9	48,0	997,0	88,6	2960	20-out-05	4,4	52,3	48,0	971,0	88,6	3065	20-out-05	5,0	57,9	51,0	992,0	91,0
2856	20-out-05	5,2	56,6	48,0	997,0	96,7	2961	20-out-05	4,6	63,5	48,0	996,0	88,6	3066	20-out-05	5,7	56,9	51,0	993,0	91,0
2857	20-out-05	4,2	51,0	48,0	993,0	88,6	2962	20-out-05	4,3	52,9	48,0	994,0	88,6	3067	20-out-05	6,1	60,4	51,0	993,0	91,0
2858	20-out-05	4,7	51,0	48,0	961,0	88,6	2963	20-out-05	3,9	51,6	48,0	999,0	88,6	3068	20-out-05	5,5	64,7	51,0	995,0	91,0
2859	20-out-05	4,7	56,5	48,0	961,0	88,6	2964	20-out-05	5,6	57,8	48,0	941,0	88,6	3069	20-out-05	4,8	57,6	51,0	994,0	91,0
2860	20-out-05	5,3	54,4	48,0	743,0	88,6	2965	20-out-05	4,6	48,9	49,0	996,0	88,6	3070	20-out-05	5,6	58,5	51,0	994,0	91,0
2861	20-out-05	4,7	57,9	48,0	994,0	88,6	2966	20-out-05	4,4	49,6	49,0	994,0	88,6	3071	20-out-05	4,3	57,8	51,0	999,0	91,0
2862	20-out-05	4,4	50,6	48,0	994,0	88,6	2967	20-out-05	4,4	56,0	49,0	992,0	88,6	3072	20-out-05	5,8	59,7	51,0	796,0	91,0
2863	20-out-05	4,2	50,6	48,0	907,0	88,6	2968	20-out-05	4,7	58,8	49,0	994,0	88,6	3073	20-out-05	5,5	65,8	51,0	969,0	91,0
2864	20-out-05	4,4	50,1	48,0	994,0	88,6	2969	20-out-05	5,1	55,8	49,0	995,0	88,6	3074	20-out-05	4,6	66,3	51,0	992,0	91,0
2865	20-out-05	4,4	56,7	48,0	993,0	88,6	2970	20-out-05	4,7	57,5	49,0	964,0	88,6	3075	20-out-05	5,2	61,0	51,0	990,0	91,0
2866	20-out-05	4,3	54,3	48,0	963,0	88,6	2971	20-out-05	5,8	52,9	49,0	884,0	90,1	3076	20-out-05	5,6	61,5	51,0	994,0	91,0
2867	20-out-05	4,1	53,0	48,0	999,0	88,6	2972	20-out-05	5,6	53,9	49,0	997,0	99,4	3077	20-out-05	5,8	62,8	51,0	999,0	90,9
2868	20-out-05	4,7	55,9	48,0	997,0	88,6	2973	20-out-05	4,7	55,0	49,0	884,0	93,6	3078	20-out-05	4,3	61,6	51,0	979,0	90,9
2869	20-out-05	3,9	52,7	48,0	979,0	88,6	2974	20-out-05	5,7	56,0	49,0	883,0								

2879	20-out-05	4,2	53,8	48,0	797,0	88,6	2984	20-out-05	5,5	59,7	52,0	994,0	90,8	3089	20-out-05	5,5	60,3	51,0	997,0	91,0
2880	20-out-05	4,8	53,8	48,0	969,0	88,6	2985	20-out-05	4,4	50,9	52,0	994,0	90,8	3090	20-out-05	4,6	58,4	51,0	994,0	91,0
2881	20-out-05	3,8	54,8	48,0	994,0	88,6	2986	20-out-05	5,1	53,4	51,0	979,0	90,8	3091	20-out-05	5,1	54,5	51,0	996,0	91,0
2882	20-out-05	3,9	51,3	48,0	995,0	88,6	2987	20-out-05	5,0	54,3	51,0	959,0	90,8	3092	20-out-05	4,4	54,7	51,0	995,0	91,0
2883	20-out-05	3,8	54,2	48,0	900,0	88,6	2988	20-out-05	4,8	55,9	51,0	991,0	90,8	3093	20-out-05	4,7	54,3	51,0	792,0	91,0
2884	20-out-05	5,0	53,4	48,0	969,0	88,6	2989	20-out-05	5,0	52,3	51,0	741,0	90,8	3094	20-out-05	5,3	65,7	51,0	997,0	91,0
2885	20-out-05	3,9	51,2	48,0	992,0	88,6	2990	20-out-05	5,0	59,9	51,0	996,0	90,8	3095	20-out-05	4,2	63,1	51,0	945,0	90,9
2886	20-out-05	4,2	51,5	48,0	992,0	88,6	2991	20-out-05	4,8	51,9	51,0	963,0	90,8	3096	20-out-05	5,3	67,9	51,0	961,0	91,0
2887	20-out-05	3,9	53,9	48,0	992,0	88,6	2992	20-out-05	4,8	49,1	51,0	942,0	90,8	3097	20-out-05	4,6	72,6	51,0	999,0	91,0
2888	20-out-05	5,1	53,3	48,0	994,0	88,6	2993	20-out-05	5,8	51,4	51,0	994,0	90,8	3098	20-out-05	4,7	70,5	51,0	995,0	91,0
2889	20-out-05	3,9	50,7	48,0	995,0	88,6	2994	20-out-05	5,2	51,4	51,0	993,0	90,8	3099	20-out-05	4,4	64,5	51,0	994,0	91,0
2890	20-out-05	5,1	51,8	48,0	997,0	88,6	2995	20-out-05	5,2	49,6	51,0	994,0	90,8	3100	20-out-05	3,9	59,9	51,0	994,0	91,0
2891	20-out-05	4,8	54,2	48,0	902,0	88,6	2996	20-out-05	5,2	53,1	51,0	997,0	90,9	3101	20-out-05	4,1	53,7	51,0	996,0	90,9
2892	20-out-05	4,2	54,4	48,0	900,0	88,6	2997	20-out-05	5,1	51,1	51,0	994,0	90,9	3102	20-out-05	3,9	55,0	51,0	999,0	90,9
2893	20-out-05	3,8	63,6	48,0	947,0	88,6	2998	20-out-05	5,0	52,1	51,0	960,0	90,9	3103	20-out-05	4,7	54,9	51,0	992,0	90,9
2894	20-out-05	4,6	52,2	48,0	996,0	88,6	2999	20-out-05	5,8	56,3	51,0	996,0	90,9	3104	20-out-05	5,6	60,6	51,0	699,0	91,0
2895	20-out-05	4,3	53,9	48,0	900,0	88,6	3000	20-out-05	5,6	56,5	51,0	910,0	90,9	3105	20-out-05	4,3	57,8	51,0	967,0	91,0
2896	20-out-05	4,8	51,0	48,0	999,0	88,6	3001	20-out-05	5,2	56,7	51,0	993,0	90,9	3106	20-out-05	4,7	67,5	51,0	929,0	91,0
2897	20-out-05	6,5	49,4	48,0	991,0	88,6	3002	20-out-05	4,7	49,8	51,0	992,0	90,9	3107	20-out-05	5,8	63,8	51,0	995,0	91,0
2898	20-out-05	4,4	48,5	48,0	994,0	88,6	3003	20-out-05	5,5	51,7	51,0	993,0	90,9	3108	20-out-05	4,1	59,3	51,0	991,0	90,9
2899	20-out-05	4,3	48,3	48,0	992,0	88,6	3004	20-out-05	4,8	49,4	51,0	990,0	90,9	3109	20-out-05	3,9	59,8	51,0	993,0	91,0
2900	20-out-05	5,3	56,2	48,0	992,0	88,6	3005	20-out-05	4,8	54,4	51,0	995,0	90,9	3110	20-out-05	4,8	59,7	51,0	995,0	91,0
2901	20-out-05	5,2	58,9	48,0	993,0	88,6	3006	20-out-05	4,4	50,6	51,0	973,0	90,9	3111	20-out-05	4,4	59,0	51,0	995,0	91,0
2902	20-out-05	4,4	53,3	48,0	996,0	88,6	3007	20-out-05	5,5	58,0	51,0	969,0	90,9	3112	20-out-05	4,6	53,2	51,0	993,0	90,9
2903	20-out-05	5,0	52,2	48,0	995,0	88,6	3008	20-out-05	5,1	65,0	51,0	990,0	91,0	3113	20-out-05	4,6	52,3	51,0	994,0	90,9
2904	20-out-05	4,8	52,7	48,0	939,0	88,6	3009	20-out-05	6,2	62,1	51,0	900,0	90,9	3114	20-out-05	5,0	64,7	51,0	990,0	91,0
2905	20-out-05	4,3	51,8	48,0	993,0	88,6	3010	20-out-05	6,0	56,2	51,0	870,0	90,3	3115	20-out-05	5,1	61,0	51,0	944,0	91,0
2906	20-out-05	4,3	55,3	48,0	992,0	88,6	3011	20-out-05	4,7	61,7	51,0	863,0	90,2	3116	20-out-05	5,6	64,2	51,0	994,0	91,0
2907	20-out-05	4,3	53,5	48,0	993,0	88,6	3012	20-out-05	4,6	51,4	51,0	863,0	90,2	3117	20-out-05	4,4	63,2	51,0	919,0	91,0
2908	20-out-05	4,6	57,9	48,0	991,0	88,6	3013	20-out-05	5,0	55,9	51,0	994,0	90,8	3118	20-out-05	4,8	66,3	51,0	997,0	91,0
2909	20-out-05	4,7	59,9	48,0	962,0	88,6	3014	20-out-05	4,2	55,8	51,0	993,0	90,9	3119	20-out-05	4,6	64,0	51,0	995,0	91,0
2910	20-out-05	3,8	54,5	48,0	995,0	88,6	3015	20-out-05	5,1	56,4	51,0	994,0	90,9	3120	20-out-05	5,7	66,2	51,0	999,0	91,0
2911	20-out-05	3,8	54,8	48,0	994,0	88,6	3016	20-out-05	5,0	60,2	51,0	759,0	91,0	3121	20-out-05	4,4	63,0	51,0	994,0	91,0
2912	20-out-05	3,6	51,1	48,0	943,0	88,6	3017	20-out-05	5,0	56,5	51,0	990,0	91,0	3122	20-out-05	5,0	57,6	51,0	993,0	91,0
2913	20-out-05	4,4	51,7	48,0	995,0	88,6	3018	20-out-05	5,5	58,0	51,0	919,0	90,9	3123	20-out-05	4,4	56,1	51,0	997,0	91,0
2914	20-out-05	5,5	53,1	48,0	963,0	88,6	3019	20-out-05	5,3	53,2	51,0	994,0	90,9	3124	20-out-05	5,7	61,5	51,0	939,0	91,0
2915	20-out-05	4,6	53,0	48,0	993,0	88,6	3020	20-out-05	5,5	59,2	51,0	974,0	90,9	3125	20-out-05	5,0	60,9	51,0	620,0	91,0
2916	20-out-05	4,1	53,4	48,0	955,0	88,6	3021	20-out-05	4,7	59,1	51,0	993,0	90,9	3126	20-out-05	4,1	58,3	51,0	949,0	90,9
2917	20-out-05	5,1	64,3	48,0	979,0	96,7	3022	20-out-05	5,0	54,2	51,0	797,0	90,9	3127	20-out-05	5,2	71,4	51,0	961,0	91,0
2918	20-out-05	3,7	57,8	48,0	992,0	88,6	3023	20-out-05	4,7	52,8	51,0	996,0	90,9	3128	20-out-05	4,3	65,8	51,0	977,0	91,0
2919	20-out-05	5,3	53,1	48,0	957,0	88,6	3024	20-out-05	5,2	54,9	51,0	965,0	90,9	3129	20-out-05	4,7	60,1	51,0	997,0	91,0
2920	20-out-05	5,1	53,7	48,0	992,0	88,6	3025	20-out-05	5,0	52,3	51,0	994,0	90,9	3130	20-out-05	5,0	62,5	51,0	994,0	91,0
2921	20-out-05	4,3	50,9	48,0	990,0	88,6	3026	20-out-05	4,6	57,1	51,0	994,0	90,9	3131	20-out-05	4,6	65,7	51,0	994,0	91,0
2922	20-out-05	4,7	51,8	48,0	994,0	88,6	3027	20-out-05	5,1	57,8	51,0	993,0	90,9	3132	20-out-05	5,1	57,9	51,0	992,0	91,0
2923	20-out-05	4,4	60,1	48,0	994,0	88,6	3028	20-out-05	6,2	57,2	51,0	994,0	90,9	3133	20-out-05	4,7	67,8	51,0	993,0	91,0
2924	20-out-05	4,6	53,3	48,0	991,0	88,6	3029	20-out-05	4,3	56,7	51,0	959,0	90,9	3134	20-out-05	5,1	59,4	51,0	991,0	91,0
2925	20-out-05	3,9	55,4	48,0	993,0	88,6	3030	20-out-05	4,4	58,8	51,0	765,0	91,0	3135	20-out-05	3,7	55,3	51,0	910,0	90,9
2926	20-out-05	4,6	63,1	48,0	992,0	88,6	3031	20-out-05	5,0	60,2	51,0	994,0	91,0	3136	20-out-05	4,4	57,8	51,0	990,0	91,0
2927	20-out-05	4,1	54,7	48,0	972,0	88,6	3032	20-out-05	5,2	59,1	51,0	996,0	90,9	3137	20-out-05	4,6	65,1	51,0	994,0	91,0
2928	20-out-05	4,4	53,4	48,0	994,0	88,6	3033	20-out-05	4,6	57,8	51,0	902,0	90,9	3138	20-out-05	4,1	61,8	51,0	926,0	91,0
2929	20-out-05	4,6	62,2	48,0	995,0	88,6	3034	20-out-05	4,3	60,1	51,0	992,0	91,0	3139	20-out-05	5,1	61,2	51,0	979,0	91,0
2930	20-out-05	4,2	51,5	48,0	993,0	88,6	3035	20-out-05	5,0	61,6	51,0	995,0	90,9	3140	20-out-05	4,6	63,9	51,0	994,0	91,0
2931	20-out-05	5,0	59,1	48,0	994,0	88,6	3036	20-out-05	5,6	55,4	51,0	953,0	90,9	3141	20-out-05	5,0	66,1	51,0	996,0	91,0
2932	20-out-05	4,3	50,8	48,0	937,0	88,6	3037	20-out-05	4,8	58,8	51,0	996,0	91,0	3142	20-out-05	4,2	61,6	51,0	992,0	91,0
2933	20-out-05	5,3	58,3	48,0	994,0	88,6	3038	20-out-05	4,7	55,5	51,0	994,0	90,9	3143	20-out-05	5,1	62,5	51,0	997,0	91,0
2934	20-out-05	4,4	58,1	48,0	999,0	88,6	3039	20-out-05	4,7	61,1	51,0	995,0	90,9	3144	20-out-05	4,7	67,0	51,0	994,0	91,0
3145	20-out-05	5,1	58,3	51,0	995,0	91,0	3250	20-out-05	4,2	57,7	49,0	996,0	91,3	3355	20-out-05	4,6	60,9	49,0	999,0	91,3
3146	20-out-05	4,2	57,1	51,0	995,0	91,0	3251	20-out-05	4,6	61,8	49,0	995,0	91,3	3356	20-out-05	5,1	55,2	49,0	942,0	91,3
3147	20-out-05	5,0	60,1	51,0	907,0	91,0	3252	20-out-05	4,3	60,3	49,0	992,0	91,3	3357	20-out-05	5,2	58,0	49,0	970,0	91,3
3148	20-out-05	4,6	65,2	51,0	934,0	91,0	3253	20-out-05	4,7	57,7	49,0	994,0	91,3	3358	20-out-05	5,6	62,2	49,0	995,0	91,3
3149	20-out-05	5,1	66,8	51,0	977,0	91,0	3254	20-out-05	5,0	54,7	49,0	994,0	91,3	3359	20-out-05	5,3	54,9	49,0	975,0	91,2
3150	20-out-05	4,7	71,9	51,0	993,0	91,0	3255	20-out-05	3,9	61,7	49,0	710,0								

3160	20-out-05	4,8	66,0	51,0	996,0	91,0	3265	20-out-05	4,4	58,5	49,0	953,0	91,3	3370	20-out-05	5,0	49,6	49,0	990,0	91,2
3161	20-out-05	5,1	61,8	51,0	977,0	91,0	3266	20-out-05	5,1	64,5	49,0	965,0	91,4	3371	20-out-05	6,6	53,6	49,0	761,0	91,2
3162	20-out-05	5,0	61,7	51,0	992,0	91,0	3267	20-out-05	5,1	63,4	49,0	995,0	91,4	3372	20-out-05	4,8	57,2	49,0	939,0	91,3
3163	20-out-05	4,8	61,8	51,0	992,0	91,0	3268	20-out-05	4,8	64,2	49,0	990,0	91,4	3373	20-out-05	5,2	56,0	49,0	901,0	91,3
3164	20-out-05	5,2	64,4	51,0	999,0	91,0	3269	20-out-05	4,2	60,6	49,0	999,0	91,3	3374	20-out-05	5,7	55,1	49,0	994,0	91,3
3165	20-out-05	5,1	64,3	51,0	995,0	91,0	3270	20-out-05	3,9	57,1	49,0	995,0	91,3	3375	20-out-05	4,4	57,1	49,0	994,0	91,3
3166	20-out-05	5,0	59,3	51,0	900,0	91,0	3271	20-out-05	4,1	55,9	49,0	991,0	91,3	3376	20-out-05	5,7	56,8	49,0	992,0	91,3
3167	20-out-05	5,1	68,7	51,0	996,0	91,0	3272	20-out-05	4,7	58,1	49,0	995,0	91,3	3377	20-out-05	5,1	49,1	49,0	996,0	91,2
3168	20-out-05	4,7	66,0	51,0	994,0	91,0	3273	20-out-05	4,2	56,1	49,0	992,0	91,3	3378	20-out-05	5,3	48,3	49,0	992,0	91,2
3169	20-out-05	4,7	62,5	51,0	940,0	91,0	3274	20-out-05	3,7	59,0	49,0	995,0	91,3	3379	20-out-05	6,0	56,0	49,0	937,0	91,2
3170	20-out-05	4,8	72,0	51,0	949,0	91,0	3275	20-out-05	4,6	61,1	49,0	900,0	91,3	3380	20-out-05	6,9	62,7	49,0	769,0	91,3
3171	20-out-05	4,7	67,0	51,0	992,0	91,0	3276	20-out-05	5,5	61,5	49,0	976,0	91,3	3381	20-out-05	5,2	58,1	49,0	957,0	91,3
3172	20-out-05	3,7	62,0	51,0	994,0	91,0	3277	20-out-05	5,5	59,8	49,0	994,0	91,3	3382	20-out-05	6,1	63,6	49,0	977,0	91,3
3173	20-out-05	5,3	60,8	51,0	997,0	91,0	3278	20-out-05	5,8	61,5	49,0	999,0	91,3	3383	20-out-05	6,2	56,1	49,0	994,0	91,3
3174	20-out-05	5,0	58,0	51,0	974,0	91,0	3279	20-out-05	4,8	59,0	49,0	900,0	91,3	3384	20-out-05	5,3	53,3	49,0	997,0	91,3
3175	20-out-05	4,1	64,1	51,0	994,0	91,0	3280	20-out-05	3,9	55,9	49,0	944,0	91,3	3385	20-out-05	5,6	48,6	49,0	994,0	91,3
3176	20-out-05	4,4	66,5	51,0	944,0	91,0	3281	20-out-05	4,4	57,4	49,0	775,0	91,3	3386	20-out-05	5,0	48,3	49,0	999,0	91,2
3177	20-out-05	4,3	68,2	51,0	994,0	91,0	3282	20-out-05	4,6	59,1	49,0	955,0	91,3	3387	20-out-05	5,8	56,0	49,0	923,0	91,2
3178	20-out-05	3,7	61,3	51,0	999,0	91,0	3283	20-out-05	4,6	58,5	49,0	995,0	91,3	3388	20-out-05	5,8	59,0	49,0	969,0	91,3
3179	20-out-05	4,6	64,3	51,0	794,0	91,0	3284	20-out-05	4,1	62,5	49,0	953,0	91,3	3389	20-out-05	4,7	60,6	49,0	991,0	91,2
3180	20-out-05	4,8	64,4	51,0	999,0	91,0	3285	20-out-05	5,1	61,9	49,0	910,0	91,4	3390	20-out-05	4,8	55,5	49,0	994,0	91,2
3181	20-out-05	5,0	62,0	51,0	999,0	91,0	3286	20-out-05	5,1	59,0	49,0	994,0	91,3	3391	20-out-05	5,8	51,5	49,0	900,0	91,2
3182	20-out-05	4,6	58,8	51,0	994,0	91,0	3287	20-out-05	4,6	61,1	49,0	999,0	91,3	3392	20-out-05	5,5	50,9	49,0	993,0	91,2
3183	20-out-05	4,4	64,8	51,0	994,0	91,0	3288	20-out-05	4,7	60,0	49,0	793,0	91,3	3393	20-out-05	5,5	52,9	49,0	994,0	91,2
3184	20-out-05	3,9	67,8	51,0	994,0	91,0	3289	20-out-05	4,8	56,6	49,0	996,0	91,3	3394	20-out-05	5,3	55,8	49,0	973,0	91,2
3185	20-out-05	3,9	61,7	51,0	995,0	91,0	3290	20-out-05	4,4	56,0	49,0	995,0	91,3	3395	20-out-05	5,3	56,5	49,0	774,0	91,2
3186	20-out-05	5,6	66,6	51,0	999,0	91,0	3291	20-out-05	4,2	58,2	49,0	994,0	91,3	3396	20-out-05	4,2	57,2	49,0	971,0	91,3
3187	20-out-05	4,4	72,4	51,0	994,0	91,0	3292	20-out-05	6,0	57,9	49,0	900,0	91,3	3397	20-out-05	5,0	58,5	49,0	992,0	91,3
3188	20-out-05	6,0	66,6	51,0	902,0	91,0	3293	20-out-05	4,1	58,5	49,0	996,0	91,3	3398	20-out-05	5,3	54,4	49,0	992,0	91,3
3189	20-out-05	6,2	63,2	51,0	996,0	91,0	3294	20-out-05	4,4	56,9	49,0	993,0	91,3	3399	20-out-05	5,1	50,8	48,0	900,0	91,2
3190	20-out-05	5,3	65,1	51,0	792,0	91,0	3295	20-out-05	4,8	60,1	49,0	994,0	91,3	3400	20-out-05	5,0	49,9	49,0	901,0	91,2
3191	20-out-05	4,2	68,4	51,0	902,0	91,0	3296	20-out-05	4,2	54,8	49,0	995,0	91,3	3401	20-out-05	5,2	48,5	49,0	994,0	91,2
3192	20-out-05	5,2	66,1	51,0	999,0	91,0	3297	20-out-05	4,8	56,6	49,0	996,0	91,3	3402	20-out-05	4,6	52,5	49,0	963,0	91,2
3193	20-out-05	5,2	61,1	51,0	952,0	91,0	3298	20-out-05	4,6	55,2	49,0	943,0	91,3	3403	20-out-05	5,8	59,8	49,0	949,0	91,3
3194	20-out-05	4,1	62,1	51,0	999,0	91,0	3299	20-out-05	5,5	57,9	49,0	991,0	91,3	3404	20-out-05	5,5	57,7	49,0	996,0	91,3
3195	20-out-05	4,2	60,8	51,0	996,0	91,0	3300	20-out-05	5,3	59,8	49,0	905,0	91,3	3405	20-out-05	4,6	55,9	49,0	977,0	91,3
3196	20-out-05	4,3	70,1	51,0	994,0	91,0	3301	20-out-05	4,3	54,5	49,0	994,0	91,3	3406	20-out-05	5,1	52,9	49,0	994,0	91,2
3197	20-out-05	4,2	68,9	51,0	936,0	91,0	3302	20-out-05	6,7	58,1	49,0	993,0	91,3	3407	20-out-05	4,8	52,1	49,0	997,0	91,3
3198	20-out-05	3,8	68,4	51,0	991,0	91,0	3303	20-out-05	5,5	59,7	49,0	994,0	91,3	3408	20-out-05	5,1	48,4	49,0	994,0	91,2
3199	20-out-05	4,1	62,0	51,0	990,0	91,0	3304	20-out-05	5,0	52,1	49,0	931,0	91,3	3409	20-out-05	5,1	51,7	49,0	923,0	91,3
3200	20-out-05	5,1	66,9	51,0	994,0	91,0	3305	20-out-05	4,7	54,7	49,0	931,0	91,3	3410	20-out-05	5,6	51,7	49,0	970,0	91,2
3201	20-out-05	5,5	64,4	51,0	853,0	91,6	3306	20-out-05	4,6	56,7	49,0	994,0	91,3	3411	20-out-05	4,8	58,9	49,0	990,0	91,2
3202	20-out-05	5,1	60,3	51,0	884,0	91,6	3307	20-out-05	4,2	58,5	49,0	739,0	91,3	3412	20-out-05	4,6	53,0	48,0	999,0	91,3
3203	20-out-05	4,2	62,8	51,0	884,0	91,6	3308	20-out-05	5,0	58,7	49,0	761,0	91,3	3413	20-out-05	4,3	53,9	49,0	974,0	91,3
3204	20-out-05	4,8	61,2	51,0	896,0	91,6	3309	20-out-05	4,3	55,9	49,0	995,0	91,3	3414	20-out-05	5,6	51,0	49,0	994,0	91,2
3205	20-out-05	5,8	59,4	51,0	835,0	91,6	3310	20-out-05	4,2	54,3	49,0	915,0	91,3	3415	20-out-05	5,8	53,6	49,0	995,0	91,2
3206	20-out-05	5,0	69,2	51,0	869,0	91,6	3311	20-out-05	5,1	54,3	49,0	914,0	91,3	3416	20-out-05	5,7	49,3	49,0	996,0	91,3
3207	20-out-05	5,3	70,9	51,0	867,0	91,5	3312	20-out-05	5,3	52,6	49,0	993,0	91,3	3417	20-out-05	5,5	49,9	49,0	994,0	91,2
3208	20-out-05	5,5	61,2	51,0	886,0	91,5	3313	20-out-05	5,1	54,1	49,0	969,0	91,3	3418	20-out-05	5,5	52,0	49,0	962,0	91,2
3209	20-out-05	4,7	59,6	51,0	995,0	91,4	3314	20-out-05	4,7	53,6	49,0	997,0	91,3	3419	20-out-05	5,3	56,6	49,0	915,0	91,2
3210	20-out-05	4,6	57,1	51,0	994,0	91,4	3315	20-out-05	4,6	53,9	49,0	991,0	91,3	3420	20-out-05	5,0	54,3	49,0	999,0	91,2
3211	20-out-05	4,8	58,9	51,0	999,0	91,4	3316	20-out-05	6,1	58,0	49,0	992,0	91,3	3421	20-out-05	5,0	57,2	49,0	999,0	91,2
3212	20-out-05	4,7	58,3	51,0	607,0	91,4	3317	20-out-05	4,4	56,8	49,0	994,0	91,3	3422	20-out-05	5,1	51,5	49,0	900,0	91,2
3213	20-out-05	6,2	64,0	51,0	961,0	91,4	3318	20-out-05	4,6	55,6	49,0	997,0	91,3	3423	20-out-05	5,5	56,3	49,0	994,0	91,2
3214	20-out-05	4,1	64,7	51,0	999,0	91,4	3319	20-out-05	4,1	59,5	49,0	900,0	91,3	3424	20-out-05	5,5	54,0	50,0	999,0	91,2
3215	20-out-05	4,6	61,2	51,0	953,0	91,3	3320	20-out-05	4,8	54,4	49,0	994,0	91,3	3425	20-out-05	6,1	51,4	50,0	995,0	91,2
3216	20-out-05	4,6	63,0	51,0	999,0	91,4	3321	20-out-05	5,0	57,5	49,0	995,0	91,3	3426	20-out-05	5,5	50,6	50,0	993,0	91,2
3217	20-out-05	4,7	66,9	51,0	971,0	91,4	3322	20-out-05	5,0	53,2	49,0	993,0	91,3	3427	20-out-05	6,2	55,6	50,0	994,0	91,3
3218	20-out-05	5,5	62,0	51,0	995,0	91,4	3323	20-out-05	5,7	66,7	49,0	995,0	91,3	3428	20-out-05	6,1	58,8	50,0	990,0	91,2
3219	20-out-05	4,7	58,2	51,0	990,0	91,4	3324	20-out-05	5,1	56,5	49,0	994,0	91,3	3429	20-out-05	6,2	58,8	51,0	979,0	91,2
3220	20-out-05	3,9	60,8	51,0	907,0	91,4	3325	20-out-05	4,3	58,3	49,0	923,0	91,3	3430	20-out-05	5,1	49,1	51,0	993,0	91,2
3221	20-out-05	5,6	60,2	51,0	993,0	91,4	3326	20-out-05	5,5	58,2	49,0	995,0								

3231	20-out-05	4,6	65,3	51,0	991,0	91,3	3336	20-out-05	5,1	52,9	49,0	994,0	91,3	3441	20-out-05	5,8	51,7	51,0	939,0	91,2
3232	20-out-05	4,2	64,0	51,0	996,0	91,4	3337	20-out-05	5,1	52,7	49,0	999,0	91,3	3442	20-out-05	6,0	54,1	51,0	947,0	91,2
3233	20-out-05	4,8	63,9	51,0	994,0	91,4	3338	20-out-05	4,8	52,4	49,0	993,0	91,3	3443	20-out-05	5,1	57,2	51,0	990,0	91,2
3234	20-out-05	4,4	63,2	51,0	903,0	91,4	3339	20-out-05	5,6	52,6	49,0	994,0	91,3	3444	20-out-05	6,5	56,9	51,0	935,0	91,3
3235	20-out-05	4,7	58,0	51,0	994,0	91,3	3340	20-out-05	5,2	58,3	49,0	994,0	91,3	3445	20-out-05	34,7	55,1	51,0	997,0	91,3
3236	20-out-05	5,8	61,7	51,0	995,0	91,4	3341	20-out-05	4,8	58,4	49,0	996,0	91,3	3446	20-out-05	35,1	56,6	51,0	915,0	91,3
3237	20-out-05	7,5	63,3	50,0	959,0	91,4	3342	20-out-05	4,3	52,5	49,0	997,0	91,3	3447	20-out-05	34,9	51,6	51,0	999,0	91,2
3238	20-out-05	5,5	60,1	50,0	903,0	91,3	3343	20-out-05	5,0	50,5	49,0	997,0	91,3	3448	20-out-05	35,1	54,6	51,0	900,0	91,3
3239	20-out-05	4,7	60,0	50,0	994,0	91,3	3344	20-out-05	5,5	54,8	49,0	995,0	91,2	3449	20-out-05	35,1	49,0	51,0	992,0	91,2
3240	20-out-05	4,3	60,1	50,0	994,0	91,4	3345	20-out-05	5,1	54,9	49,0	997,0	91,3	3450	20-out-05	8,3	52,6	51,0	923,0	91,3
3241	20-out-05	4,2	60,3	50,0	997,0	91,3	3346	20-out-05	4,7	51,2	49,0	994,0	91,2	3451	20-out-05	4,8	54,8	51,0	994,0	91,3
3242	20-out-05	5,0	70,6	50,0	901,0	91,3	3347	20-out-05	5,1	51,0	49,0	909,0	91,2	3452	20-out-05	5,3	54,9	51,0	994,0	91,3
3243	20-out-05	5,0	60,9	50,0	992,0	91,3	3348	20-out-05	4,7	57,0	49,0	994,0	91,2	3453	20-out-05	6,6	56,4	51,0	994,0	91,3
3244	20-out-05	4,1	59,8	50,0	991,0	91,4	3349	20-out-05	5,3	58,0	49,0	971,0	91,3	3454	20-out-05	5,3	49,8	51,0	994,0	91,3
3245	20-out-05	4,2	59,9	50,0	991,0	91,3	3350	20-out-05	5,0	53,6	49,0	997,0	91,3	3455	20-out-05	6,7	54,0	51,0	994,0	91,3
3246	20-out-05	4,1	56,8	50,0	991,0	91,3	3351	20-out-05	4,4	52,6	49,0	949,0	91,3	3456	20-out-05	5,8	53,2	51,0	669,0	91,3
3247	20-out-05	4,3	56,5	50,0	976,0	91,3	3352	20-out-05	5,3	54,8	49,0	994,0	91,3	3457	20-out-05	6,1	52,0	51,0	995,0	91,3
3248	20-out-05	5,1	59,3	49,0	995,0	91,3	3353	20-out-05	4,7	53,2	49,0	999,0	91,2	3458	20-out-05	6,0	52,1	51,0	994,0	91,3
3249	20-out-05	4,2	61,1	49,0	992,0	91,3	3354	20-out-05	4,8	52,6	49,0	956,0	91,2	3459	20-out-05	5,3	55,4	51,0	993,0	91,3
3460	20-out-05	5,6	55,9	51,0	945,0	91,3	3565	20-out-05	5,6	57,8	52,0	900,0	91,3	3670	20-out-05	4,4	62,6	52,0	994,0	90,9
3461	20-out-05	5,1	55,9	51,0	991,0	91,3	3566	20-out-05	5,2	57,1	52,0	940,0	91,3	3671	20-out-05	4,1	56,7	51,0	922,0	90,8
3462	20-out-05	6,2	53,7	51,0	994,0	91,3	3567	20-out-05	5,3	55,3	52,0	997,0	91,3	3672	20-out-05	4,6	58,7	52,0	939,0	90,9
3463	20-out-05	5,0	52,1	52,0	994,0	91,3	3568	20-out-05	6,6	57,2	52,0	907,0	91,3	3673	20-out-05	5,5	60,4	52,0	994,0	90,9
3464	20-out-05	5,5	49,3	52,0	994,0	91,3	3569	20-out-05	4,6	55,8	52,0	995,0	91,3	3674	20-out-05	4,6	56,7	52,0	993,0	90,9
3465	20-out-05	5,3	52,1	52,0	994,0	91,3	3570	20-out-05	4,8	56,7	52,0	993,0	91,3	3675	20-out-05	3,9	60,9	51,0	902,0	90,9
3466	20-out-05	5,8	54,0	52,0	954,0	91,3	3571	20-out-05	4,6	57,0	52,0	990,0	91,3	3676	20-out-05	3,9	57,7	52,0	900,0	90,8
3467	20-out-05	6,0	53,6	52,0	991,0	91,3	3572	20-out-05	5,1	58,2	52,0	929,0	91,3	3677	20-out-05	4,4	57,3	52,0	995,0	90,9
3468	20-out-05	5,8	53,6	52,0	960,0	91,3	3573	20-out-05	5,2	55,8	52,0	991,0	91,3	3678	20-out-05	4,8	61,5	52,0	999,0	90,9
3469	20-out-05	5,2	54,9	52,0	994,0	91,3	3574	20-out-05	4,2	55,9	52,0	999,0	91,3	3679	20-out-05	4,6	60,0	52,0	992,0	90,9
3470	20-out-05	5,0	56,3	52,0	999,0	91,3	3575	20-out-05	5,1	58,2	52,0	991,0	91,3	3680	20-out-05	4,4	57,6	52,0	994,0	90,9
3471	20-out-05	5,3	53,2	52,0	996,0	91,3	3576	20-out-05	4,8	55,9	52,0	999,0	91,3	3681	20-out-05	4,8	58,3	52,0	999,0	90,9
3472	20-out-05	5,2	51,2	52,0	994,0	91,3	3577	20-out-05	5,5	58,8	52,0	996,0	91,4	3682	20-out-05	4,8	63,7	52,0	900,0	90,9
3473	20-out-05	5,8	51,0	52,0	994,0	91,2	3578	20-out-05	4,4	53,3	52,0	991,0	91,3	3683	20-out-05	4,4	55,6	52,0	992,0	90,8
3474	20-out-05	6,4	53,1	52,0	916,0	91,3	3579	20-out-05	5,1	56,5	52,0	994,0	91,3	3684	20-out-05	4,6	59,6	52,0	994,0	90,9
3475	20-out-05	5,8	53,1	52,0	997,0	91,3	3580	20-out-05	7,2	55,2	52,0	962,0	91,3	3685	20-out-05	4,2	57,5	52,0	973,0	90,8
3476	20-out-05	6,4	57,6	52,0	995,0	91,3	3581	20-out-05	5,6	59,1	52,0	996,0	91,3	3686	20-out-05	4,2	57,1	52,0	999,0	90,8
3477	20-out-05	4,7	52,6	52,0	939,0	91,3	3582	20-out-05	5,0	56,2	52,0	792,0	91,3	3687	20-out-05	5,6	55,8	52,0	972,0	90,8
3478	20-out-05	4,7	55,5	52,0	994,0	91,3	3583	20-out-05	5,0	58,3	52,0	992,0	91,3	3688	20-out-05	4,6	56,8	52,0	993,0	90,8
3479	20-out-05	5,5	57,0	52,0	995,0	91,3	3584	20-out-05	4,6	60,1	52,0	996,0	91,4	3689	20-out-05	4,3	57,2	52,0	999,0	90,8
3480	20-out-05	4,6	52,8	52,0	994,0	91,3	3585	20-out-05	5,2	60,0	52,0	993,0	91,4	3690	20-out-05	4,6	61,1	52,0	997,0	90,8
3481	20-out-05	5,1	53,0	52,0	996,0	91,3	3586	20-out-05	4,3	58,0	52,0	993,0	91,3	3691	20-out-05	4,1	56,7	52,0	995,0	90,8
3482	20-out-05	4,6	51,4	52,0	997,0	91,3	3587	20-out-05	4,8	53,6	52,0	993,0	91,3	3692	20-out-05	4,7	60,2	52,0	964,0	90,8
3483	20-out-05	5,1	55,8	52,0	949,0	91,3	3588	20-out-05	5,2	52,7	52,0	910,0	91,3	3693	20-out-05	4,3	54,9	52,0	790,0	90,8
3484	20-out-05	5,1	58,7	52,0	969,0	91,3	3589	20-out-05	4,8	58,7	52,0	991,0	91,3	3694	20-out-05	4,1	56,2	52,0	995,0	90,9
3485	20-out-05	5,1	55,1	52,0	993,0	91,3	3590	20-out-05	5,2	59,7	52,0	995,0	91,3	3695	20-out-05	4,6	57,4	52,0	900,0	90,9
3486	20-out-05	4,7	57,8	52,0	994,0	91,3	3591	20-out-05	5,5	55,9	52,0	939,0	91,3	3696	20-out-05	3,7	61,5	52,0	995,0	90,9
3487	20-out-05	5,1	54,1	52,0	994,0	91,3	3592	20-out-05	4,4	60,1	52,0	997,0	91,3	3697	20-out-05	4,1	63,1	52,0	949,0	90,9
3488	20-out-05	5,0	54,1	52,0	994,0	91,3	3593	20-out-05	4,8	55,4	52,0	999,0	91,3	3698	20-out-05	3,8	60,9	52,0	979,0	90,9
3489	20-out-05	5,8	53,2	52,0	994,0	91,3	3594	20-out-05	4,1	53,1	52,0	990,0	91,3	3699	20-out-05	4,7	61,1	52,0	994,0	90,9
3490	20-out-05	5,5	57,7	52,0	901,0	91,3	3595	20-out-05	6,0	57,8	52,0	994,0	91,3	3700	20-out-05	4,4	59,8	52,0	992,0	90,9
3491	20-out-05	5,2	60,9	52,0	996,0	91,3	3596	20-out-05	4,8	51,1	52,0	994,0	91,3	3701	20-out-05	4,6	60,6	52,0	991,0	90,9
3492	20-out-05	5,2	55,3	52,0	996,0	91,3	3597	20-out-05	3,9	58,4	52,0	994,0	91,3	3702	20-out-05	4,8	57,9	52,0	993,0	90,9
3493	20-out-05	5,0	57,1	52,0	994,0	91,3	3598	20-out-05	5,0	57,8	52,0	934,0	91,3	3703	20-out-05	5,0	57,9	52,0	994,0	90,9
3494	20-out-05	4,7	56,9	52,0	993,0	91,3	3599	20-out-05	4,4	58,8	52,0	993,0	91,3	3704	20-out-05	3,8	59,2	52,0	991,0	90,9
3495	20-out-05	4,7	51,8	52,0	994,0	91,3	3600	20-out-05	4,2	55,2	52,0	993,0	91,3	3705	20-out-05	3,7	56,6	52,0	995,0	90,9
3496	20-out-05	4,8	53,2	52,0	991,0	91,3	3601	20-out-05	4,6	59,9	52,0	993,0	91,3	3706	20-out-05	3,9	57,7	52,0	993,0	90,9
3497	20-out-05	5,0	54,0	52,0	996,0	91,3	3602	20-out-05	5,3	53,7	52,0	996,0	91,3	3707	20-out-05	4,1	57,6	52,0	900,0	90,9
3498	20-out-05	4,3	52,2	52,0	992,0	91,3	3603	20-out-05	5,5	53,5	52,0	995,0	91,3	3708	20-out-05	4,4	59,6	52,0	979,0	90,9
3499	20-out-05	5,2	58,9	52,0	990,0	91,3	3604	20-out-05	4,7	57,4	52,0	994,0	91,3	3709	20-out-05	5,0	59,9	52,0	995,0	90,9
3500	20-out-05	5,1	59,0	52,0	995,0	91,3	3605	20-out-05	5,1	57,1	52,0	991,0	91,3	3710	20-out-05	4,4	62,4	51,0	995,0	90,9
3501	20-out-05	4,7	57,0	52,0	903,0	91,3	3606	20-out-05	4,4	56,3	52,0	995,0	91,3	3711	20-out-05	4,6	61,2	52,0	995,0	90,9
3502	20-out-05	6,5	58,5	52,0	992,0	91,3	3607	20-out-05	5,1	57,5	52,0	994								

3512	20-out-05	5,3	52,2	52,0	994,0	91,3	3617	20-out-05	4,7	54,1	52,0	995,0	91,3	3722	20-out-05	4,6	59,2	52,0	996,0	90,9
3513	20-out-05	4,7	57,6	52,0	990,0	91,3	3618	20-out-05	4,4	54,3	52,0	993,0	91,3	3723	20-out-05	4,3	57,1	52,0	995,0	90,9
3514	20-out-05	5,0	52,9	52,0	900,0	91,3	3619	20-out-05	4,7	53,7	52,0	994,0	91,3	3724	20-out-05	4,7	57,8	52,0	996,0	90,9
3515	20-out-05	4,8	53,0	52,0	990,0	91,3	3620	20-out-05	4,4	56,2	52,0	994,0	91,3	3725	20-out-05	3,6	57,7	52,0	995,0	90,9
3516	20-out-05	4,7	55,7	52,0	991,0	91,3	3621	20-out-05	4,6	57,6	52,0	993,0	91,3	3726	20-out-05	4,8	58,5	52,0	995,0	90,9
3517	20-out-05	5,3	59,0	52,0	901,0	91,3	3622	20-out-05	4,8	55,2	52,0	999,0	91,3	3727	20-out-05	5,0	61,5	52,0	947,0	90,9
3518	20-out-05	5,6	59,6	52,0	999,0	91,3	3623	20-out-05	4,2	57,9	52,0	994,0	91,3	3728	20-out-05	5,5	61,8	52,0	996,0	90,9
3519	20-out-05	5,5	53,6	52,0	994,0	91,3	3624	20-out-05	4,6	59,9	52,0	996,0	91,3	3729	20-out-05	4,4	60,5	51,0	907,0	90,9
3520	20-out-05	5,2	57,2	52,0	925,0	91,3	3625	20-out-05	4,4	54,6	52,0	991,0	91,3	3730	20-out-05	5,2	62,0	52,0	994,0	90,9
3521	20-out-05	5,2	56,4	52,0	900,0	91,3	3626	20-out-05	4,7	54,1	52,0	997,0	91,3	3731	20-out-05	4,7	58,7	52,0	900,0	90,9
3522	20-out-05	5,1	55,0	52,0	901,0	91,3	3627	20-out-05	5,1	54,4	52,0	997,0	91,3	3732	20-out-05	4,3	57,9	52,0	991,0	90,9
3523	20-out-05	5,6	57,5	52,0	929,0	91,3	3628	20-out-05	3,9	53,2	52,0	926,0	91,3	3733	20-out-05	4,8	62,0	52,0	979,0	90,9
3524	20-out-05	4,3	59,0	52,0	999,0	91,4	3629	20-out-05	5,0	54,9	52,0	999,0	91,3	3734	20-out-05	5,2	57,6	51,0	993,0	90,9
3525	20-out-05	5,1	59,6	52,0	991,0	91,4	3630	20-out-05	4,6	57,8	52,0	999,0	91,3	3735	20-out-05	4,7	61,3	52,0	999,0	90,9
3526	20-out-05	5,6	55,7	52,0	954,0	91,4	3631	20-out-05	5,7	55,9	52,0	994,0	91,3	3736	20-out-05	4,2	59,1	51,0	997,0	90,9
3527	20-out-05	5,0	57,0	52,0	992,0	91,3	3632	20-out-05	5,5	59,8	52,0	994,0	91,3	3737	20-out-05	4,6	58,8	52,0	999,0	90,9
3528	20-out-05	5,3	61,3	52,0	996,0	91,3	3633	20-out-05	4,6	56,4	52,0	996,0	91,3	3738	20-out-05	3,9	62,3	52,0	997,0	90,9
3529	20-out-05	4,7	58,2	52,0	991,0	91,4	3634	20-out-05	4,6	55,7	52,0	993,0	91,4	3739	20-out-05	5,1	59,3	52,0	992,0	90,9
3530	20-out-05	6,6	55,3	52,0	997,0	91,3	3635	20-out-05	4,6	55,7	52,0	994,0	91,3	3740	20-out-05	4,2	58,6	52,0	993,0	90,9
3531	20-out-05	5,3	58,3	52,0	997,0	91,3	3636	20-out-05	4,7	57,9	52,0	933,0	91,3	3741	20-out-05	5,6	56,3	52,0	994,0	90,9
3532	20-out-05	5,1	57,4	52,0	994,0	91,3	3637	20-out-05	4,7	55,6	52,0	697,0	90,9	3742	20-out-05	4,4	61,7	52,0	996,0	90,9
3533	20-out-05	5,3	56,6	52,0	994,0	91,3	3638	20-out-05	4,1	56,8	52,0	995,0	90,9	3743	20-out-05	4,6	56,6	52,0	999,0	90,9
3534	20-out-05	5,3	61,9	52,0	902,0	91,3	3639	20-out-05	5,3	59,0	52,0	996,0	91,0	3744	20-out-05	4,1	56,9	51,0	914,0	90,9
3535	20-out-05	5,0	56,3	52,0	999,0	91,3	3640	20-out-05	4,2	53,8	52,0	995,0	91,0	3745	20-out-05	4,6	58,1	51,0	994,0	90,9
3536	20-out-05	5,3	52,9	52,0	994,0	91,3	3641	20-out-05	4,4	56,5	52,0	992,0	91,0	3746	20-out-05	4,3	56,1	51,0	990,0	90,9
3537	20-out-05	5,6	57,9	52,0	996,0	91,3	3642	20-out-05	5,2	54,8	52,0	994,0	91,0	3747	20-out-05	4,2	61,8	51,0	969,0	90,9
3538	20-out-05	5,3	52,3	52,0	900,0	91,3	3643	20-out-05	4,8	58,3	52,0	994,0	91,0	3748	20-out-05	4,3	57,7	51,0	992,0	90,9
3539	20-out-05	4,7	52,7	52,0	993,0	91,3	3644	20-out-05	4,7	54,9	52,0	993,0	91,0	3749	20-out-05	5,1	59,2	51,0	975,0	90,9
3540	20-out-05	5,2	56,6	52,0	994,0	91,3	3645	20-out-05	4,8	57,5	52,0	919,0	91,0	3750	20-out-05	4,6	58,6	50,0	993,0	90,9
3541	20-out-05	6,5	58,1	52,0	795,0	91,3	3646	20-out-05	4,1	57,3	52,0	994,0	91,0	3751	20-out-05	4,2	58,2	50,0	994,0	90,9
3542	20-out-05	4,8	59,4	52,0	964,0	91,3	3647	20-out-05	4,4	54,9	52,0	995,0	91,0	3752	20-out-05	4,4	57,2	50,0	993,0	90,9
3543	20-out-05	4,7	57,7	52,0	994,0	91,3	3648	20-out-05	4,1	54,1	52,0	993,0	91,0	3753	20-out-05	5,1	55,7	50,0	995,0	90,9
3544	20-out-05	4,2	53,4	52,0	995,0	91,3	3649	20-out-05	4,7	58,3	52,0	1008,2	92,9	3754	20-out-05	4,8	61,8	50,0	993,0	90,9
3545	20-out-05	5,1	51,5	52,0	905,0	91,3	3650	20-out-05	5,2	58,0	52,0	990,0	91,0	3755	20-out-05	4,1	58,6	50,0	995,0	90,9
3546	20-out-05	4,7	54,1	52,0	993,0	91,3	3651	20-out-05	4,2	59,6	52,0	999,0	91,0	3756	20-out-05	4,7	59,7	50,0	977,0	90,9
3547	20-out-05	4,7	56,0	52,0	999,0	91,3	3652	20-out-05	5,2	55,0	52,0	992,0	91,0	3757	20-out-05	5,5	59,8	50,0	972,0	90,9
3548	20-out-05	5,7	55,5	52,0	949,0	91,3	3653	20-out-05	3,9	54,8	52,0	959,0	91,0	3758	20-out-05	5,0	63,5	50,0	977,0	90,9
3549	20-out-05	4,7	57,2	52,0	993,0	91,3	3654	20-out-05	4,6	57,7	52,0	993,0	91,0	3759	20-out-05	4,6	55,6	49,0	960,0	90,9
3550	20-out-05	4,7	60,6	52,0	992,0	91,3	3655	20-out-05	3,8	59,2	52,0	996,0	91,1	3760	20-out-05	4,3	57,9	49,0	996,0	90,9
3551	20-out-05	4,6	55,8	52,0	964,0	91,3	3656	20-out-05	3,9	56,4	52,0	995,0	91,0	3761	20-out-05	4,2	60,0	49,0	970,0	90,9
3552	20-out-05	5,8	58,1	52,0	990,0	91,3	3657	20-out-05	4,7	57,3	51,0	994,0	91,0	3762	20-out-05	5,1	54,6	49,0	994,0	90,9
3553	20-out-05	5,5	53,5	52,0	992,0	91,3	3658	20-out-05	4,6	56,2	52,0	994,0	91,0	3763	20-out-05	4,6	60,4	49,0	929,0	90,9
3554	20-out-05	5,8	55,5	52,0	975,0	91,3	3659	20-out-05	4,6	54,3	52,0	997,0	91,0	3764	20-out-05	4,6	62,1	49,0	994,0	90,9
3555	20-out-05	4,4	57,6	52,0	977,0	91,3	3660	20-out-05	3,8	56,5	52,0	692,0	91,0	3765	20-out-05	4,2	59,2	49,0	979,0	90,9
3556	20-out-05	5,2	58,6	52,0	996,0	91,3	3661	20-out-05	5,1	56,9	52,0	994,0	91,0	3766	20-out-05	4,4	63,6	49,0	900,0	90,9
3557	20-out-05	4,8	59,5	52,0	993,0	91,3	3662	20-out-05	4,4	55,7	52,0	994,0	91,0	3767	20-out-05	5,5	56,7	49,0	993,0	90,9
3558	20-out-05	4,8	60,4	52,0	994,0	91,4	3663	20-out-05	4,6	54,6	52,0	995,0	91,0	3768	20-out-05	4,1	62,2	49,0	995,0	90,9
3559	20-out-05	5,1	59,3	52,0	994,0	91,3	3664	20-out-05	4,6	56,6	52,0	909,0	90,8	3769	20-out-05	4,6	57,1	49,0	793,0	90,9
3560	20-out-05	5,5	56,0	52,0	993,0	91,3	3665	20-out-05	5,1	61,2	52,0	991,0	90,9	3770	20-out-05	4,7	60,7	49,0	977,0	90,9
3561	20-out-05	4,8	58,1	52,0	993,0	91,4	3666	20-out-05	5,1	60,0	52,0	995,0	90,9	3771	20-out-05	5,0	62,4	49,0	993,0	90,9
3562	20-out-05	3,9	52,4	52,0	996,0	91,3	3667	20-out-05	5,2	57,7	52,0	999,0	90,9	3772	20-out-05	5,1	57,7	49,0	900,0	90,9
3563	20-out-05	5,5	57,4	52,0	976,0	91,3	3668	20-out-05	4,8	55,4	52,0	993,0	90,8	3773	20-out-05	5,5	57,2	49,0	967,0	90,9
3564	20-out-05	6,2	59,5	52,0	792,0	91,3	3669	20-out-05	4,7	56,2	52,0	991,0	90,9	3774	20-out-05	4,6	66,0	49,0	992,0	90,9
3775	20-out-05	4,6	61,7	49,0	991,0	90,9	3880	20-out-05	4,1	58,4	48,0	903,0	90,9	3985	20-out-05	5,3	57,8	48,0	992,0	90,9
3776	20-out-05	4,7	64,7	49,0	994,0	90,9	3881	20-out-05	4,6	54,4	48,0	995,0	90,9	3986	20-out-05	5,1	61,5	48,0	999,0	90,9
3777	20-out-05	5,5	59,0	49,0	997,0	90,9	3882	20-out-05	4,3	54,4	48,0	995,0	90,8	3987	20-out-05	4,6	59,9	48,0	994,0	90,9
3778	20-out-05	4,4	58,5	49,0	994,0	90,9	3883	20-out-05	5,6	54,6	48,0	974,0	90,9	3988	20-out-05	4,7	57,5	48,0	994,0	90,9
3779	20-out-05	4,7	55,3	49,0	999,0	90,9	3884	20-out-05	5,3	56,9	48,0	994,0	90,9	3989	20-out-05	5,6	58,4	48,0	900,0	90,9
3780	20-out-05	4,8	59,5	49,0	993,0	90,9	3885	20-out-05	5,0	55,7	48,0	973,0	90,9	3990	20-out-05	4,6	54,0	48,0	999,0	90,9
3781	20-out-05	4,7	61,6	49,0	992,0	90,9	3886	20-out-05	4,2	54,5	49,0	997,0	90,8	3991	20-out-05	4,3	53,6	48,0	993,0	90,9
3782	20-out-05	4,6	57,7	49,0	929,0	90,9	3887	20-out-05	4,3	57,2	48,0	994,0	90,9	3992	20-out-05	4,3	56,4	48,0	956,0	90,9
3783	20-out-05	4,7	59,2	49,0	993,0	90,9	3888	20-out-05	5,0	56,0	48,0	994,0</								

3793	20-out-05	5,0	63,3	49,0	992,0	90,9	3898	20-out-05	4,3	54,9	48,0	994,0	90,9	4003	20-out-05	4,7	58,2	48,0	926,0	90,9
3794	20-out-05	4,8	61,6	49,0	923,0	90,9	3899	20-out-05	5,5	53,7	48,0	993,0	90,9	4004	20-out-05	5,5	60,0	48,0	999,0	90,9
3795	20-out-05	5,0	58,7	49,0	920,0	90,9	3900	20-out-05	4,7	54,1	48,0	994,0	90,9	4005	20-out-05	4,2	55,5	48,0	997,0	90,8
3796	20-out-05	4,2	59,5	49,0	994,0	90,9	3901	20-out-05	4,6	56,5	48,0	992,0	90,9	4006	20-out-05	5,3	56,4	48,0	994,0	90,9
3797	20-out-05	6,0	62,9	49,0	997,0	90,9	3902	20-out-05	5,2	58,9	48,0	977,0	90,9	4007	20-out-05	4,7	55,8	48,0	995,0	90,9
3798	20-out-05	6,4	57,5	49,0	994,0	90,9	3903	20-out-05	4,3	58,0	48,0	994,0	90,9	4008	20-out-05	5,5	55,9	48,0	996,0	90,9
3799	20-out-05	4,6	55,3	49,0	952,0	90,9	3904	20-out-05	5,2	65,4	48,0	971,0	90,9	4009	20-out-05	5,2	62,0	48,0	995,0	90,9
3800	20-out-05	6,9	59,7	49,0	999,0	90,9	3905	20-out-05	5,0	56,3	48,0	996,0	90,9	4010	20-out-05	4,6	51,9	48,0	925,0	90,9
3801	20-out-05	4,7	58,3	49,0	956,0	90,9	3906	20-out-05	5,2	62,1	48,0	900,0	90,9	4011	20-out-05	4,2	59,2	48,0	995,0	90,9
3802	20-out-05	5,7	58,9	49,0	999,0	90,9	3907	20-out-05	5,3	61,3	48,0	900,0	90,9	4012	20-out-05	5,1	56,6	48,0	994,0	90,9
3803	20-out-05	4,4	57,7	49,0	900,0	90,9	3908	20-out-05	4,6	54,5	48,0	900,0	90,9	4013	20-out-05	4,8	56,2	48,0	993,0	90,9
3804	20-out-05	5,0	61,0	49,0	994,0	90,9	3909	20-out-05	4,7	50,6	48,0	997,0	90,9	4014	20-out-05	4,4	57,2	48,0	994,0	90,9
3805	20-out-05	5,6	60,8	49,0	996,0	90,9	3910	20-out-05	7,7	54,2	48,0	729,0	90,9	4015	20-out-05	4,8	55,6	48,0	945,0	90,9
3806	20-out-05	4,8	62,8	49,0	999,0	90,9	3911	20-out-05	4,8	54,1	48,0	900,0	90,9	4016	20-out-05	4,2	58,5	48,0	971,0	90,9
3807	20-out-05	6,1	58,3	49,0	996,0	90,9	3912	20-out-05	5,3	54,0	48,0	902,0	90,9	4017	20-out-05	5,1	57,8	48,0	996,0	90,9
3808	20-out-05	5,2	62,0	49,0	996,0	90,9	3913	20-out-05	4,7	60,1	48,0	992,0	90,9	4018	20-out-05	4,6	58,3	48,0	992,0	90,9
3809	20-out-05	4,2	52,2	49,0	995,0	90,9	3914	20-out-05	5,1	57,5	48,0	993,0	90,9	4019	20-out-05	5,2	56,3	48,0	900,0	90,9
3810	20-out-05	4,4	58,0	49,0	991,0	90,9	3915	20-out-05	5,1	57,4	48,0	900,0	90,9	4020	20-out-05	3,8	53,9	48,0	932,0	90,9
3811	20-out-05	5,1	54,4	49,0	991,0	90,9	3916	20-out-05	5,6	59,6	48,0	996,0	90,9	4021	20-out-05	4,3	56,1	48,0	994,0	90,9
3812	20-out-05	5,0	54,3	49,0	994,0	90,8	3917	20-out-05	4,7	60,2	48,0	995,0	90,9	4022	20-out-05	4,2	56,8	48,0	999,0	90,8
3813	20-out-05	4,4	54,1	49,0	995,0	90,9	3918	20-out-05	5,1	57,3	48,0	994,0	90,9	4023	20-out-05	4,8	55,9	48,0	992,0	90,9
3814	20-out-05	4,7	58,8	49,0	997,0	90,9	3919	20-out-05	4,3	50,6	48,0	992,0	90,9	4024	20-out-05	3,8	58,4	48,0	994,0	90,9
3815	20-out-05	4,7	56,8	49,0	994,0	90,9	3920	20-out-05	6,4	59,7	48,0	964,0	90,9	4025	20-out-05	4,2	55,3	48,0	994,0	90,9
3816	20-out-05	5,1	59,5	49,0	999,0	90,9	3921	20-out-05	5,5	56,5	48,0	900,0	90,9	4026	20-out-05	4,7	57,2	48,0	991,0	90,9
3817	20-out-05	4,4	57,8	49,0	994,0	90,9	3922	20-out-05	5,5	57,2	48,0	967,0	90,9	4027	20-out-05	4,6	54,9	48,0	997,0	90,9
3818	20-out-05	5,8	59,8	49,0	992,0	90,9	3923	20-out-05	4,3	55,6	48,0	904,0	90,9	4028	20-out-05	4,8	53,3	48,0	999,0	90,8
3819	20-out-05	4,7	52,8	49,0	994,0	90,9	3924	20-out-05	3,9	61,6	48,0	996,0	90,9	4029	20-out-05	5,3	53,8	48,0	994,0	90,8
3820	20-out-05	4,4	53,3	49,0	995,0	90,9	3925	20-out-05	5,0	55,5	48,0	994,0	90,9	4030	20-out-05	4,3	53,8	48,0	994,0	90,9
3821	20-out-05	5,3	52,9	49,0	991,0	90,9	3926	20-out-05	6,7	57,9	48,0	995,0	90,9	4031	20-out-05	4,7	53,0	48,0	996,0	90,8
3822	20-out-05	5,1	50,6	49,0	999,0	90,9	3927	20-out-05	5,3	63,3	48,0	994,0	90,9	4032	20-out-05	5,3	57,8	48,0	990,0	90,8
3823	20-out-05	5,2	55,3	49,0	993,0	90,9	3928	20-out-05	4,7	58,7	48,0	941,0	90,9	4033	20-out-05	5,3	57,2	48,0	999,0	90,9
3824	20-out-05	4,6	56,2	49,0	994,0	90,9	3929	20-out-05	5,0	53,8	48,0	909,0	90,9	4034	20-out-05	5,0	61,1	48,0	997,0	90,9
3825	20-out-05	5,3	59,7	49,0	971,0	90,9	3930	20-out-05	6,1	53,2	48,0	999,0	90,8	4035	20-out-05	5,0	53,8	48,0	995,0	90,9
3826	20-out-05	6,1	60,4	49,0	991,0	90,9	3931	20-out-05	4,7	56,6	48,0	993,0	90,9	4036	20-out-05	4,7	54,7	48,0	919,0	90,9
3827	20-out-05	5,6	60,9	49,0	999,0	90,9	3932	20-out-05	4,7	53,6	48,0	997,0	90,8	4037	20-out-05	4,7	51,8	48,0	990,0	90,9
3828	20-out-05	4,1	63,3	49,0	997,0	90,9	3933	20-out-05	4,6	56,5	48,0	996,0	90,9	4038	20-out-05	4,1	60,0	48,0	999,0	90,9
3829	20-out-05	5,1	56,8	49,0	991,0	90,9	3934	20-out-05	4,8	63,5	48,0	994,0	90,9	4039	20-out-05	6,2	49,2	48,0	997,0	90,8
3830	20-out-05	4,6	61,8	49,0	996,0	90,9	3935	20-out-05	5,3	59,8	48,0	976,0	90,9	4040	20-out-05	4,3	51,9	48,0	939,0	90,8
3831	20-out-05	5,0	54,8	49,0	966,0	90,9	3936	20-out-05	5,3	62,1	48,0	994,0	90,9	4041	20-out-05	5,2	55,1	48,0	995,0	90,9
3832	20-out-05	6,0	55,3	49,0	999,0	90,9	3937	20-out-05	5,3	57,6	48,0	996,0	90,9	4042	20-out-05	5,1	52,0	48,0	994,0	90,8
3833	20-out-05	5,3	53,7	49,0	792,0	90,9	3938	20-out-05	5,5	55,3	48,0	991,0	90,9	4043	20-out-05	4,2	56,0	48,0	995,0	90,8
3834	20-out-05	4,6	56,8	49,0	917,0	90,9	3939	20-out-05	6,1	59,6	48,0	992,0	90,9	4044	20-out-05	4,4	58,5	48,0	994,0	90,9
3835	20-out-05	5,7	60,8	49,0	990,0	90,9	3940	20-out-05	4,7	53,8	48,0	993,0	90,9	4045	20-out-05	4,6	53,2	48,0	993,0	90,9
3836	20-out-05	4,8	59,2	49,0	979,0	90,9	3941	20-out-05	5,0	54,9	48,0	994,0	90,9	4046	20-out-05	5,3	54,6	48,0	901,0	90,9
3837	20-out-05	5,0	59,2	49,0	994,0	90,9	3942	20-out-05	4,7	52,9	48,0	994,0	90,8	4047	20-out-05	4,8	55,4	48,0	992,0	90,9
3838	20-out-05	6,7	59,4	49,0	994,0	90,9	3943	20-out-05	5,5	54,4	48,0	939,0	90,9	4048	20-out-05	4,8	55,7	48,0	993,0	90,8
3839	20-out-05	6,1	57,2	49,0	955,0	90,9	3944	20-out-05	5,0	58,7	48,0	997,0	90,9	4049	20-out-05	5,2	51,3	48,0	990,0	90,8
3840	20-out-05	5,8	60,8	49,0	995,0	90,9	3945	20-out-05	4,7	56,9	48,0	995,0	90,9	4050	20-out-05	4,6	50,6	48,0	994,0	90,8
3841	20-out-05	5,0	53,1	48,0	997,0	90,9	3946	20-out-05	4,8	60,3	48,0	903,0	90,9	4051	20-out-05	5,2	57,7	48,0	994,0	90,9
3842	20-out-05	5,0	52,2	49,0	926,0	90,9	3947	20-out-05	5,1	59,4	48,0	999,0	90,9	4052	20-out-05	4,6	51,7	48,0	994,0	90,8
3843	20-out-05	4,6	56,4	49,0	979,0	90,9	3948	20-out-05	4,3	55,2	48,0	994,0	90,9	4053	20-out-05	5,1	54,3	48,0	994,0	90,9
3844	20-out-05	5,7	54,3	49,0	993,0	90,9	3949	20-out-05	5,1	58,2	48,0	990,0	90,9	4054	20-out-05	4,3	55,8	48,0	994,0	90,8
3845	20-out-05	5,2	58,4	49,0	994,0	90,9	3950	20-out-05	5,2	57,5	48,0	910,0	90,9	4055	20-out-05	4,6	56,6	48,0	992,0	90,9
3846	20-out-05	4,4	58,5	49,0	935,0	90,9	3951	20-out-05	4,8	55,1	48,0	992,0	90,8	4056	20-out-05	6,0	57,2	48,0	961,0	90,9
3847	20-out-05	5,2	57,6	48,0	995,0	90,9	3952	20-out-05	4,3	52,6	48,0	994,0	90,9	4057	20-out-05	4,6	57,3	48,0	995,0	91,4
3848	20-out-05	5,1	57,5	49,0	900,0	90,9	3953	20-out-05	5,6	56,6	48,0	953,0	90,9	4058	20-out-05	5,2	56,8	48,0	999,0	91,2
3849	20-out-05	4,7	56,5	48,0	995,0	90,9	3954	20-out-05	4,4	58,8	48,0	991,0	90,9	4059	20-out-05	5,2	52,4	48,0	797,0	91,1
3850	20-out-05	5,0	52,9	48,0	994,0	90,9	3955	20-out-05	4,3	56,4	48,0	907,0	90,9	4060	20-out-05	4,7	54,7	48,0	992,0	91,2
3851	20-out-05	4,8	55,8	49,0	902,0	90,8	3956	20-out-05	4,7	58,8	48,0	994,0	90,9	4061	20-out-05	5,1	58,8	48,0	994,0	91,1
3852	20-out-05	4,2	50,3	48,0	992,0	90,8	3957	20-out-05	4,8	57,2	48,0	995,0	90,9	4062	20-out-05	5,1	56,4	48,0	994,0	91,1
3853	20-out-05	5,2	53,3	49,0	994,0	90,9	3958	20-out-05	5,8	58,1	48,0	993,0	90,9	4063	20-out-05	4,7	64,7	48,0	990,0	91,2
3854	20-out-05	4,8	59,1	48,0	969,0	90,9	3959	20-out-05	5,2	54,1	48,0	994,0								

3864	20-out-05	5,1	58,5	48,0	993,0	90,9	3969	20-out-05	5,7	56,7	48,0	993,0	90,9	4074	20-out-05	6,1	55,1	48,0	961,0	91,2
3865	20-out-05	4,8	55,3	49,0	946,0	90,9	3970	20-out-05	5,0	54,3	48,0	990,0	90,9	4075	20-out-05	4,4	53,4	48,0	996,0	91,2
3866	20-out-05	4,4	64,7	48,0	940,0	90,9	3971	20-out-05	4,6	57,5	48,0	994,0	90,9	4076	20-out-05	4,7	52,6	48,0	994,0	91,1
3867	20-out-05	6,4	64,6	48,0	995,0	90,9	3972	20-out-05	5,1	51,5	48,0	994,0	90,8	4077	20-out-05	4,1	54,2	48,0	970,0	91,1
3868	20-out-05	5,0	58,5	48,0	999,0	90,8	3973	20-out-05	4,6	53,7	48,0	939,0	90,9	4078	20-out-05	4,7	54,6	48,0	993,0	91,1
3869	20-out-05	4,6	57,2	48,0	920,0	90,9	3974	20-out-05	4,6	53,8	48,0	991,0	90,9	4079	20-out-05	4,6	53,8	48,0	994,0	91,2
3870	20-out-05	5,0	69,0	48,0	996,0	90,9	3975	20-out-05	4,2	59,8	48,0	924,0	90,9	4080	20-out-05	3,7	54,6	48,0	676,0	91,2
3871	20-out-05	5,0	54,6	48,0	994,0	90,9	3976	20-out-05	4,4	58,0	48,0	961,0	90,9	4081	20-out-05	4,1	56,3	48,0	994,0	91,1
3872	20-out-05	4,3	49,6	48,0	990,0	90,8	3977	20-out-05	4,6	60,6	48,0	993,0	90,9	4082	20-out-05	4,3	54,4	48,0	994,0	91,1
3873	20-out-05	5,1	56,0	48,0	994,0	90,8	3978	20-out-05	5,2	53,4	48,0	994,0	90,9	4083	20-out-05	4,6	52,3	48,0	995,0	91,2
3874	20-out-05	7,1	58,4	48,0	992,0	90,9	3979	20-out-05	5,7	53,7	48,0	959,0	90,9	4084	20-out-05	4,4	54,3	48,0	995,0	91,1
3875	20-out-05	5,5	56,2	48,0	900,0	90,9	3980	20-out-05	4,6	55,8	48,0	999,0	90,9	4085	20-out-05	5,0	57,1	48,0	993,0	91,1
3876	20-out-05	4,4	60,3	49,0	999,0	90,9	3981	20-out-05	5,1	54,5	48,0	715,0	90,9	4086	20-out-05	4,7	55,7	48,0	996,0	91,1
3877	20-out-05	5,3	56,6	48,0	997,0	90,9	3982	20-out-05	5,6	53,7	48,0	997,0	90,9	4087	20-out-05	4,4	54,6	48,0	965,0	91,1
3878	20-out-05	4,6	60,2	48,0	994,0	90,9	3983	20-out-05	5,3	53,2	48,0	996,0	90,9	4088	20-out-05	4,8	55,5	48,0	999,0	91,2
3879	20-out-05	4,4	54,2	49,0	994,0	90,9	3984	20-out-05	4,1	57,4	48,0	969,0	90,9	4089	20-out-05	4,8	55,0	48,0	999,0	91,1
4090	20-out-05	4,3	55,8	48,0	995,0	91,1	4195	20-out-05	4,4	53,9	48,0	995,0	91,1	4300	20-out-05	5,6	57,5	53,0	999,0	91,1
4091	20-out-05	4,4	55,6	48,0	996,0	91,1	4196	20-out-05	4,7	55,5	48,0	979,0	91,1	4301	20-out-05	4,7	56,8	53,0	900,0	91,1
4092	20-out-05	5,2	54,3	48,0	997,0	91,2	4197	20-out-05	4,7	53,4	48,0	992,0	91,1	4302	20-out-05	5,2	53,9	52,0	996,0	91,1
4093	20-out-05	4,7	53,0	48,0	997,0	91,1	4198	20-out-05	5,0	52,8	48,0	992,0	91,1	4303	20-out-05	5,5	54,9	52,0	999,0	91,1
4094	20-out-05	4,7	55,7	48,0	990,0	91,1	4199	20-out-05	4,4	53,7	48,0	994,0	91,1	4304	20-out-05	5,8	55,4	52,0	999,0	91,1
4095	20-out-05	4,2	57,4	48,0	994,0	91,1	4200	20-out-05	4,2	56,7	48,0	994,0	91,1	4305	20-out-05	5,2	58,0	52,0	997,0	91,1
4096	20-out-05	4,6	54,4	48,0	994,0	91,1	4201	20-out-05	4,6	52,9	48,0	995,0	91,1	4306	20-out-05	5,6	59,2	52,0	900,0	91,2
4097	20-out-05	4,3	57,3	48,0	994,0	91,2	4202	20-out-05	4,8	52,5	48,0	994,0	91,1	4307	20-out-05	7,4	58,2	52,0	900,0	91,1
4098	20-out-05	4,7	56,4	48,0	996,0	91,1	4203	20-out-05	5,8	61,5	48,0	977,0	91,1	4308	20-out-05	6,6	61,2	52,0	945,0	91,2
4099	20-out-05	5,0	53,6	48,0	997,0	91,1	4204	20-out-05	5,7	56,6	48,0	995,0	91,1	4309	20-out-05	6,1	53,8	51,0	991,0	91,1
4100	20-out-05	4,7	49,0	48,0	994,0	91,1	4205	20-out-05	4,4	53,9	48,0	995,0	91,1	4310	20-out-05	5,7	62,9	51,0	999,0	91,1
4101	20-out-05	4,8	53,7	48,0	999,0	91,1	4206	20-out-05	4,8	53,9	48,0	969,0	91,1	4311	20-out-05	7,4	63,7	51,0	949,0	91,1
4102	20-out-05	5,2	57,6	48,0	997,0	91,1	4207	20-out-05	4,1	56,0	48,0	991,0	91,1	4312	20-out-05	5,5	58,4	51,0	990,0	91,2
4103	20-out-05	4,6	54,9	48,0	961,0	91,1	4208	20-out-05	5,5	59,0	48,0	999,0	91,1	4313	20-out-05	4,6	53,8	51,0	797,0	91,1
4104	20-out-05	5,2	55,4	48,0	969,0	91,1	4209	20-out-05	4,4	51,3	48,0	995,0	91,1	4314	20-out-05	5,0	54,1	51,0	992,0	91,2
4105	20-out-05	4,4	57,4	48,0	994,0	91,1	4210	20-out-05	4,4	52,6	48,0	965,0	91,1	4315	20-out-05	5,8	57,5	51,0	994,0	91,1
4106	20-out-05	5,6	54,5	48,0	993,0	91,1	4211	20-out-05	5,2	56,3	48,0	979,0	91,1	4316	20-out-05	5,5	55,7	51,0	994,0	91,1
4107	20-out-05	4,3	53,5	48,0	994,0	91,1	4212	20-out-05	5,2	54,0	48,0	994,0	91,1	4317	20-out-05	6,6	60,6	51,0	994,0	91,2
4108	20-out-05	8,6	55,1	48,0	994,0	91,1	4213	20-out-05	5,6	55,1	48,0	994,0	91,1	4318	20-out-05	5,2	55,9	51,0	971,0	91,1
4109	20-out-05	4,2	52,7	48,0	999,0	91,1	4214	20-out-05	4,8	58,7	48,0	997,0	91,1	4319	20-out-05	5,6	57,9	51,0	914,0	91,2
4110	20-out-05	5,5	56,5	48,0	990,0	91,1	4215	20-out-05	5,7	54,5	48,0	995,0	91,1	4320	20-out-05	5,0	56,6	51,0	994,0	91,1
4111	20-out-05	5,3	55,4	48,0	969,0	91,1	4216	20-out-05	5,2	53,2	48,0	995,0	91,1	4321	20-out-05	5,7	57,7	51,0	991,0	91,2
4112	20-out-05	4,7	58,0	48,0	990,0	91,1	4217	20-out-05	5,5	53,7	48,0	993,0	91,1	4322	20-out-05	5,2	55,9	51,0	994,0	91,1
4113	20-out-05	4,4	55,2	48,0	995,0	91,1	4218	20-out-05	4,8	50,1	48,0	994,0	91,1	4323	20-out-05	4,4	57,3	51,0	993,0	91,2
4114	20-out-05	4,8	55,5	48,0	996,0	91,1	4219	20-out-05	4,6	52,1	48,0	992,0	91,1	4324	20-out-05	4,8	56,4	51,0	716,0	91,2
4115	20-out-05	5,0	60,4	48,0	997,0	91,1	4220	20-out-05	5,7	56,8	48,0	917,0	91,1	4325	20-out-05	5,1	61,1	51,0	992,0	91,1
4116	20-out-05	5,3	56,6	48,0	965,0	91,1	4221	20-out-05	4,6	59,0	48,0	994,0	91,1	4326	20-out-05	8,9	60,5	51,0	933,0	91,1
4117	20-out-05	5,3	54,6	48,0	999,0	91,1	4222	20-out-05	4,3	52,6	48,0	992,0	91,1	4327	20-out-05	4,3	61,2	51,0	993,0	91,2
4118	20-out-05	4,8	54,9	48,0	997,0	91,1	4223	20-out-05	4,4	52,4	48,0	994,0	91,1	4328	20-out-05	5,3	54,6	51,0	997,0	91,1
4119	20-out-05	5,3	53,2	48,0	996,0	91,1	4224	20-out-05	4,3	58,1	48,0	977,0	91,1	4329	20-out-05	5,5	58,1	51,0	900,0	91,1
4120	20-out-05	5,3	53,1	48,0	990,0	91,1	4225	20-out-05	4,7	55,7	48,0	993,0	91,1	4330	20-out-05	5,8	58,9	51,0	997,0	91,1
4121	20-out-05	5,6	57,3	48,0	996,0	91,1	4226	20-out-05	5,0	51,2	48,0	991,0	91,1	4331	20-out-05	5,5	54,5	51,0	999,0	91,1
4122	20-out-05	5,6	55,6	48,0	790,0	91,1	4227	20-out-05	6,1	58,6	48,0	949,0	91,1	4332	20-out-05	5,7	56,4	51,0	902,0	91,1
4123	20-out-05	6,0	56,0	48,0	993,0	91,1	4228	20-out-05	5,0	56,0	48,0	994,0	91,1	4333	20-out-05	4,6	62,3	51,0	999,0	91,1
4124	20-out-05	6,0	59,6	48,0	994,0	91,1	4229	20-out-05	5,8	54,8	48,0	990,0	91,1	4334	20-out-05	5,2	56,9	51,0	993,0	91,1
4125	20-out-05	5,0	54,7	48,0	999,0	91,1	4230	20-out-05	5,3	57,6	48,0	993,0	91,1	4335	20-out-05	5,8	55,1	51,0	995,0	91,1
4126	20-out-05	4,8	49,6	48,0	990,0	91,1	4231	20-out-05	5,2	53,1	48,0	994,0	91,1	4336	20-out-05	5,8	57,6	51,0	997,0	91,2
4127	20-out-05	5,5	52,6	48,0	993,0	91,1	4232	20-out-05	4,3	54,0	48,0	995,0	91,1	4337	20-out-05	5,6	59,9	51,0	999,0	91,2
4128	20-out-05	4,7	54,1	48,0	912,0	91,1	4233	20-out-05	4,8	56,2	48,0	979,0	91,1	4338	20-out-05	4,8	53,9	51,0	994,0	91,1
4129	20-out-05	4,2	54,8	48,0	991,0	91,1	4234	20-out-05	6,5	56,6	48,0	993,0	91,1	4339	20-out-05	5,3	56,0	51,0	992,0	91,1
4130	20-out-05	6,6	53,9	48,0	993,0	91,1	4235	20-out-05	6,6	49,7	48,0	993,0	91,1	4340	20-out-05	6,5	51,7	51,0	905,0	91,1
4131	20-out-05	4,7	54,4	48,0	997,0	91,1	4236	20-out-05	5,8	53,2	48,0	996,0	91,1	4341	20-out-05	6,2	58,1	51,0	979,0	91,2
4132	20-out-05	5,2	64,3	48,0	993,0	91,1	4237	20-out-05	4,4	62,6	48,0	996,0	91,1	4342	20-out-05	5,1	57,5	51,0	992,0	91,1
4133	20-out-05	5,0	55,2	48,0	994,0	91,1	4238	20-out-05	4,8	56,5	48,0	700,0	91,1	4343	20-out-05	5,0	55,5	51,0	934,0	91,1
4134	20-out-05	5,0	51,1	48,0	994,0	91,1	4239	20-out-05	4,6	52,6	48,0	990,0	91,1	4344	20-out-05	4,8	58,3	51,0	996,0	91,1
4135	20-out-05	5,5	53,0	48,0	960,0	91,1	4240	20-out-05	4,2	51,9	48,0	995,0								

4145	20-out-05	5,6	53,0	48,0	970,0	91,1	4250	20-out-05	5,3	50,8	48,0	999,0	91,1	4355	20-out-05	6,6	63,4	51,0	990,0	91,1
4146	20-out-05	6,1	56,5	48,0	997,0	91,1	4251	20-out-05	5,5	50,8	48,0	999,0	91,1	4356	20-out-05	5,2	55,8	51,0	997,0	91,1
4147	20-out-05	5,0	56,1	48,0	994,0	91,1	4252	20-out-05	5,5	51,9	48,0	999,0	91,1	4357	20-out-05	4,8	55,4	51,0	995,0	91,1
4148	20-out-05	4,4	60,2	48,0	994,0	91,1	4253	20-out-05	4,6	53,4	48,0	991,0	91,1	4358	20-out-05	6,7	53,6	51,0	999,0	91,1
4149	20-out-05	5,8	58,6	48,0	995,0	91,1	4254	20-out-05	5,1	58,9	48,0	795,0	91,1	4359	20-out-05	5,2	53,5	51,0	996,0	91,1
4150	20-out-05	5,0	56,6	48,0	993,0	91,1	4255	20-out-05	4,2	55,2	48,0	994,0	91,1	4360	20-out-05	4,4	60,0	51,0	992,0	91,1
4151	20-out-05	5,2	54,5	48,0	997,0	91,1	4256	20-out-05	5,2	53,9	48,0	992,0	91,1	4361	20-out-05	5,2	55,7	51,0	995,0	91,1
4152	20-out-05	4,4	52,2	48,0	999,0	91,1	4257	20-out-05	4,8	52,9	48,0	994,0	91,1	4362	20-out-05	5,8	60,5	51,0	995,0	91,2
4153	20-out-05	4,8	52,9	48,0	910,0	91,1	4258	20-out-05	5,1	56,8	48,0	993,0	91,1	4363	20-out-05	4,3	59,7	51,0	900,0	91,1
4154	20-out-05	5,0	52,9	48,0	994,0	91,1	4259	20-out-05	5,0	55,0	48,0	990,0	91,1	4364	20-out-05	6,0	54,3	51,0	994,0	91,1
4155	20-out-05	5,7	54,5	48,0	949,0	91,1	4260	20-out-05	6,1	56,5	49,0	991,0	91,1	4365	20-out-05	4,8	57,0	51,0	993,0	91,2
4156	20-out-05	5,3	57,1	48,0	993,0	91,1	4261	20-out-05	7,2	60,1	49,0	997,0	91,1	4366	20-out-05	5,0	57,5	51,0	994,0	91,1
4157	20-out-05	5,0	52,6	48,0	994,0	91,1	4262	20-out-05	6,0	60,2	50,0	953,0	91,1	4367	20-out-05	4,3	53,8	51,0	992,0	91,1
4158	20-out-05	4,8	54,2	48,0	995,0	91,1	4263	20-out-05	5,8	58,3	50,0	977,0	91,1	4368	20-out-05	5,1	55,3	51,0	994,0	91,1
4159	20-out-05	6,4	56,5	48,0	996,0	91,1	4264	20-out-05	6,6	57,8	50,0	999,0	91,1	4369	20-out-05	4,8	58,9	51,0	970,0	91,1
4160	20-out-05	5,2	53,2	48,0	999,0	91,1	4265	20-out-05	5,8	56,8	51,0	994,0	91,1	4370	20-out-05	4,8	59,0	51,0	994,0	91,2
4161	20-out-05	5,2	51,8	48,0	997,0	91,1	4266	20-out-05	5,7	55,1	51,0	994,0	91,1	4371	20-out-05	4,8	57,6	51,0	993,0	91,2
4162	20-out-05	4,7	52,1	48,0	993,0	91,1	4267	20-out-05	6,5	52,7	52,0	799,0	91,1	4372	20-out-05	4,8	57,5	51,0	994,0	91,1
4163	20-out-05	4,2	51,4	48,0	993,0	91,1	4268	20-out-05	6,9	54,7	52,0	994,0	91,1	4373	20-out-05	6,4	57,6	51,0	994,0	91,1
4164	20-out-05	5,3	55,0	48,0	991,0	91,1	4269	20-out-05	5,6	53,5	52,0	993,0	91,1	4374	20-out-05	5,6	52,4	51,0	993,0	91,1
4165	20-out-05	4,7	58,6	48,0	959,0	91,1	4270	20-out-05	4,7	53,6	52,0	991,0	91,1	4375	20-out-05	5,8	59,9	51,0	911,0	91,1
4166	20-out-05	4,8	58,8	48,0	994,0	91,1	4271	20-out-05	4,3	60,1	52,0	999,0	91,1	4376	20-out-05	5,3	56,4	51,0	999,0	91,2
4167	20-out-05	4,8	57,6	48,0	994,0	91,1	4272	20-out-05	6,0	59,4	53,0	995,0	91,1	4377	20-out-05	5,3	52,0	51,0	994,0	91,1
4168	20-out-05	5,2	61,6	48,0	993,0	91,1	4273	20-out-05	7,7	55,7	53,0	994,0	91,1	4378	20-out-05	5,0	59,4	51,0	994,0	91,1
4169	20-out-05	6,2	53,5	48,0	991,0	91,1	4274	20-out-05	4,7	51,5	53,0	991,0	91,1	4379	20-out-05	5,2	61,6	51,0	990,0	91,1
4170	20-out-05	4,4	57,6	48,0	991,0	91,1	4275	20-out-05	5,7	55,4	53,0	990,0	91,1	4380	20-out-05	5,8	59,2	51,0	991,0	91,1
4171	20-out-05	5,0	53,7	48,0	992,0	91,1	4276	20-out-05	4,8	58,4	53,0	991,0	91,1	4381	20-out-05	5,5	56,2	51,0	994,0	91,1
4172	20-out-05	5,5	55,7	48,0	990,0	91,1	4277	20-out-05	4,8	59,4	53,0	994,0	91,1	4382	20-out-05	5,1	54,6	51,0	994,0	91,1
4173	20-out-05	4,3	56,2	48,0	992,0	91,1	4278	20-out-05	5,0	55,0	53,0	996,0	91,1	4383	20-out-05	6,5	53,7	51,0	994,0	91,1
4174	20-out-05	4,6	53,1	48,0	993,0	91,1	4279	20-out-05	7,2	55,5	53,0	994,0	91,1	4384	20-out-05	5,3	52,9	51,0	994,0	91,1
4175	20-out-05	5,6	53,7	48,0	926,0	91,1	4280	20-out-05	5,5	58,3	53,0	930,0	91,1	4385	20-out-05	4,3	51,2	51,0	993,0	91,1
4176	20-out-05	4,6	52,6	48,0	993,0	91,1	4281	20-out-05	7,0	65,8	53,0	995,0	91,1	4386	20-out-05	5,8	53,3	51,0	999,0	91,1
4177	20-out-05	5,8	57,0	48,0	993,0	91,1	4282	20-out-05	5,2	61,7	53,0	993,0	91,1	4387	20-out-05	4,8	55,8	51,0	997,0	91,1
4178	20-out-05	5,5	53,6	48,0	962,0	91,1	4283	20-out-05	6,9	52,6	53,0	997,0	91,1	4388	20-out-05	5,0	58,0	51,0	761,0	91,1
4179	20-out-05	5,1	50,7	48,0	994,0	91,1	4284	20-out-05	6,7	50,6	53,0	999,0	91,1	4389	20-out-05	5,3	61,6	51,0	991,0	91,1
4180	20-out-05	5,7	63,5	48,0	999,0	91,1	4285	20-out-05	6,7	54,8	53,0	996,0	91,1	4390	20-out-05	5,0	59,7	51,0	993,0	91,1
4181	20-out-05	5,0	54,3	48,0	990,0	91,1	4286	20-out-05	5,0	53,8	53,0	990,0	91,1	4391	20-out-05	5,3	53,8	51,0	994,0	91,1
4182	20-out-05	5,0	57,3	48,0	994,0	91,1	4287	20-out-05	5,6	57,5	54,0	997,0	91,1	4392	20-out-05	5,8	51,9	51,0	900,0	91,1
4183	20-out-05	5,0	54,5	48,0	915,0	91,1	4288	20-out-05	5,6	54,3	54,0	992,0	91,1	4393	20-out-05	4,6	51,6	51,0	993,0	91,1
4184	20-out-05	4,4	52,3	48,0	999,0	91,1	4289	20-out-05	5,3	54,3	54,0	927,0	91,1	4394	20-out-05	5,1	52,7	51,0	977,0	91,1
4185	20-out-05	5,8	57,4	48,0	901,0	91,1	4290	20-out-05	5,2	56,1	54,0	993,0	91,1	4395	20-out-05	5,0	52,0	51,0	993,0	91,1
4186	20-out-05	5,5	56,7	48,0	994,0	91,1	4291	20-out-05	5,8	54,4	54,0	995,0	91,1	4396	20-out-05	5,0	56,2	51,0	909,0	91,1
4187	20-out-05	5,8	55,9	48,0	994,0	91,1	4292	20-out-05	6,0	54,1	54,0	999,0	91,1	4397	20-out-05	4,6	58,5	51,0	996,0	91,1
4188	20-out-05	5,5	57,6	48,0	997,0	91,1	4293	20-out-05	5,5	53,6	54,0	999,0	91,1	4398	20-out-05	4,7	56,4	51,0	999,0	91,1
4189	20-out-05	4,8	59,1	48,0	997,0	91,1	4294	20-out-05	6,9	56,7	54,0	993,0	91,1	4399	20-out-05	5,2	55,6	51,0	992,0	91,1
4190	20-out-05	4,7	53,8	48,0	992,0	91,1	4295	20-out-05	6,6	56,3	54,0	994,0	91,1	4400	20-out-05	4,6	53,3	51,0	994,0	91,1
4191	20-out-05	5,0	56,9	48,0	997,0	91,1	4296	20-out-05	6,9	55,3	54,0	954,0	91,1	4401	20-out-05	6,4	55,8	51,0	990,0	91,1
4192	20-out-05	4,2	51,8	48,0	995,0	91,1	4297	20-out-05	5,0	54,0	54,0	976,0	91,1	4402	20-out-05	5,3	51,0	51,0	999,0	91,1
4193	20-out-05	5,2	59,6	48,0	994,0	91,1	4298	20-out-05	5,3	57,0	54,0	994,0	91,1	4403	20-out-05	5,6	55,1	51,0	991,0	91,1
4194	20-out-05	5,0	57,2	48,0	995,0	91,1	4299	20-out-05	5,3	56,3	53,0	994,0	91,1	4404	20-out-05	5,0	53,9	51,0	996,0	91,1
4405	20-out-05	5,2	56,5	51,0	994,0	91,1	4510	20-out-05	5,8	59,3	51,0	990,0	91,1	4615	20-out-05	5,0	62,2	51,0	994,0	91,2
4406	20-out-05	5,1	57,7	51,0	993,0	91,1	4511	20-out-05	5,2	59,6	51,0	953,0	91,1	4616	20-out-05	5,3	59,2	51,0	990,0	91,2
4407	20-out-05	4,8	61,4	51,0	991,0	91,1	4512	20-out-05	8,1	63,8	51,0	994,0	91,2	4617	20-out-05	5,3	57,5	51,0	990,0	91,2
4408	20-out-05	5,0	56,9	51,0	994,0	91,1	4513	20-out-05	6,2	59,5	51,0	992,0	91,1	4618	20-out-05	5,2	57,5	51,0	991,0	91,2
4409	20-out-05	5,8	55,5	51,0	994,0	91,1	4514	20-out-05	7,4	55,1	51,0	994,0	91,1	4619	20-out-05	5,0	60,1	51,0	994,0	91,2
4410	20-out-05	4,6	53,1	51,0	994,0	91,1	4515	20-out-05	6,9	51,3	51,0	999,0	91,1	4620	20-out-05	5,0	60,1	51,0	991,0	91,2
4411	20-out-05	4,7	52,1	51,0	994,0	91,1	4516	20-out-05	5,5	51,3	51,0	993,0	91,1	4621	20-out-05	4,7	60,0	50,0	799,0	91,2
4412	20-out-05	5,0	51,1	51,0	993,0	91,1	4517	20-out-05	6,0	52,7	51,0	992,0	91,1	4622	20-out-05	4,7	65,9	51,0	990,0	91,2
4413	20-out-05	7,1	58,1	51,0	660,0	91,1	4518	20-out-05	4,7	56,0	51,0	997,0	91,1	4623	20-out-05	5,6	61,2	51,0	994,0	91,2
4414	20-out-05	5,2	60,1	51,0	995,0	91,1	4519	20-out-05	5,0	59,6	51,0	999,0	91,1	4624	20-out-05	4,2	57,6	50,0	992,0	91,2
4415	20-out-05	5,2	57,2	51,0	991,0	91,1	4520	20-out-05	4,7	61,6	51,0	992,0	91,1	4625	20-out-05	4,3	66,0	51,0	994,0	91,2
4416	20-out-05	6,5	56,1	51,0	993,0	91,1	4521	20-out-05	5,3	52,7	51,0	995,0								

4426	20-out-05	4,6	56,6	51,0	994,0	91,1	4531	20-out-05	5,3	52,9	51,0	900,0	91,1	4636	20-out-05	4,2	62,6	51,0	993,0	91,2
4427	20-out-05	5,2	56,0	51,0	994,0	91,1	4532	20-out-05	5,5	51,4	51,0	990,0	91,1	4637	20-out-05	5,1	65,0	51,0	911,0	91,2
4428	20-out-05	6,1	59,6	51,0	994,0	91,1	4533	20-out-05	5,1	53,6	51,0	994,0	91,1	4638	20-out-05	5,3	62,8	51,0	977,0	91,2
4429	20-out-05	5,3	51,8	51,0	994,0	91,1	4534	20-out-05	5,3	53,9	51,0	994,0	91,1	4639	20-out-05	5,0	63,2	51,0	999,0	91,2
4430	20-out-05	6,1	56,8	51,0	969,0	91,1	4535	20-out-05	5,3	58,7	51,0	942,0	91,1	4640	20-out-05	4,4	65,6	51,0	993,0	91,2
4431	20-out-05	4,7	60,6	51,0	994,0	91,1	4536	20-out-05	5,5	56,4	51,0	993,0	91,1	4641	20-out-05	4,8	62,9	51,0	993,0	91,2
4432	20-out-05	4,6	60,0	51,0	994,0	91,2	4537	20-out-05	6,2	65,2	51,0	996,0	91,1	4642	20-out-05	3,8	62,0	51,0	962,0	91,2
4433	20-out-05	4,7	57,9	51,0	992,0	91,1	4538	20-out-05	5,3	55,7	51,0	995,0	91,1	4643	20-out-05	4,4	64,7	51,0	996,0	91,2
4434	20-out-05	5,6	63,5	51,0	997,0	91,1	4539	20-out-05	7,0	59,6	51,0	979,0	91,2	4644	20-out-05	5,6	62,6	51,0	996,0	91,2
4435	20-out-05	7,1	51,7	51,0	996,0	91,1	4540	20-out-05	5,7	55,0	50,0	994,0	91,2	4645	20-out-05	5,3	62,3	51,0	745,0	91,2
4436	20-out-05	5,3	50,3	51,0	977,0	91,1	4541	20-out-05	7,7	50,1	51,0	997,0	91,1	4646	20-out-05	5,3	64,0	51,0	994,0	91,2
4437	20-out-05	5,6	51,2	51,0	994,0	91,1	4542	20-out-05	6,2	54,2	51,0	907,0	91,1	4647	20-out-05	4,8	59,8	51,0	994,0	91,2
4438	20-out-05	4,4	55,2	51,0	991,0	91,1	4543	20-out-05	6,7	55,0	51,0	994,0	91,1	4648	20-out-05	4,6	59,7	51,0	994,0	91,2
4439	20-out-05	5,5	50,7	51,0	793,0	91,1	4544	20-out-05	6,7	63,3	51,0	995,0	91,1	4649	20-out-05	4,8	59,6	51,0	953,0	91,2
4440	20-out-05	5,7	57,8	51,0	719,0	91,1	4545	20-out-05	4,6	62,8	51,0	930,0	91,1	4650	20-out-05	3,9	62,3	51,0	691,0	91,2
4441	20-out-05	4,3	59,5	51,0	992,0	91,1	4546	20-out-05	5,5	64,7	51,0	996,0	91,2	4651	20-out-05	4,6	71,7	51,0	975,0	91,2
4442	20-out-05	4,6	58,1	51,0	966,0	91,1	4547	20-out-05	5,6	58,6	51,0	992,0	91,1	4652	20-out-05	5,1	70,2	51,0	991,0	91,2
4443	20-out-05	5,7	60,2	51,0	990,0	91,2	4548	20-out-05	4,6	54,6	51,0	994,0	91,1	4653	20-out-05	4,8	63,2	51,0	996,0	91,2
4444	20-out-05	4,8	58,0	51,0	993,0	91,1	4549	20-out-05	5,8	58,6	51,0	991,0	91,1	4654	20-out-05	4,3	64,4	51,0	992,0	91,2
4445	20-out-05	5,0	54,7	51,0	994,0	91,1	4550	20-out-05	5,2	52,9	51,0	994,0	91,1	4655	20-out-05	4,4	62,9	51,0	990,0	91,2
4446	20-out-05	7,7	55,0	51,0	994,0	91,1	4551	20-out-05	5,5	53,0	51,0	996,0	91,1	4656	20-out-05	4,4	68,2	51,0	990,0	91,2
4447	20-out-05	7,0	53,0	51,0	992,0	91,1	4552	20-out-05	5,3	55,0	51,0	974,0	91,1	4657	20-out-05	5,1	61,7	51,0	991,0	91,2
4448	20-out-05	5,2	56,3	51,0	991,0	91,1	4553	20-out-05	6,2	60,6	51,0	944,0	91,2	4658	20-out-05	5,0	60,0	51,0	996,0	91,2
4449	20-out-05	5,3	61,3	51,0	959,0	91,1	4554	20-out-05	5,7	59,5	51,0	944,0	91,2	4659	20-out-05	5,1	58,8	51,0	999,0	91,2
4450	20-out-05	4,3	60,3	51,0	997,0	91,2	4555	20-out-05	6,1	58,4	51,0	997,0	91,2	4660	20-out-05	5,3	68,9	51,0	959,0	91,2
4451	20-out-05	5,2	59,0	51,0	995,0	91,1	4556	20-out-05	6,2	60,0	51,0	994,0	91,2	4661	20-out-05	4,8	67,3	51,0	999,0	91,2
4452	20-out-05	5,2	53,4	51,0	996,0	91,1	4557	20-out-05	5,8	54,9	50,0	993,0	91,1	4662	20-out-05	4,8	62,8	51,0	999,0	91,2
4453	20-out-05	5,2	54,2	51,0	997,0	91,1	4558	20-out-05	4,7	54,0	51,0	994,0	91,1	4663	20-out-05	4,7	67,7	51,0	995,0	91,2
4454	20-out-05	5,5	53,0	51,0	990,0	91,1	4559	20-out-05	6,7	53,6	51,0	994,0	91,1	4664	20-out-05	5,2	66,5	51,0	999,0	91,2
4455	20-out-05	6,4	56,6	51,0	995,0	91,1	4560	20-out-05	6,0	53,2	50,0	992,0	91,1	4665	20-out-05	5,5	61,2	51,0	996,0	91,2
4456	20-out-05	5,0	53,9	51,0	902,0	91,1	4561	20-out-05	5,1	55,8	51,0	911,0	91,1	4666	20-out-05	5,2	61,6	51,0	994,0	91,2
4457	20-out-05	5,5	57,5	51,0	995,0	91,1	4562	20-out-05	5,6	60,8	51,0	969,0	91,1	4667	20-out-05	5,2	56,0	51,0	993,0	91,2
4458	20-out-05	4,8	58,8	51,0	994,0	91,1	4563	20-out-05	4,8	56,1	51,0	993,0	91,2	4668	20-out-05	4,1	59,3	51,0	992,0	91,2
4459	20-out-05	5,0	56,6	51,0	962,0	91,1	4564	20-out-05	5,1	56,5	51,0	990,0	91,2	4669	20-out-05	5,2	61,6	51,0	993,0	91,2
4460	20-out-05	5,1	53,8	51,0	990,0	91,1	4565	20-out-05	5,1	56,5	51,0	990,0	91,2	4670	20-out-05	3,8	65,8	51,0	794,0	91,2
4461	20-out-05	5,2	53,7	51,0	995,0	91,1	4566	20-out-05	5,5	73,4	51,0	964,0	91,2	4671	20-out-05	4,8	69,5	51,0	946,0	91,2
4462	20-out-05	6,0	57,3	51,0	995,0	91,1	4567	20-out-05	5,7	57,1	51,0	999,0	91,2	4672	20-out-05	4,8	66,4	51,0	976,0	91,2
4463	20-out-05	5,1	54,1	51,0	996,0	91,1	4568	20-out-05	5,2	59,0	51,0	979,0	91,2	4673	20-out-05	5,3	66,5	51,0	993,0	91,2
4464	20-out-05	4,7	57,9	51,0	992,0	91,1	4569	20-out-05	5,6	62,2	50,0	954,0	91,2	4674	20-out-05	4,4	66,5	51,0	900,0	91,2
4465	20-out-05	5,0	59,0	51,0	931,0	91,1	4570	20-out-05	5,5	74,7	51,0	977,0	91,2	4675	20-out-05	5,3	68,1	51,0	979,0	91,2
4466	20-out-05	4,6	59,0	51,0	990,0	91,1	4571	20-out-05	5,2	70,2	50,0	995,0	91,2	4676	20-out-05	4,8	56,9	51,0	994,0	91,2
4467	20-out-05	5,6	59,2	51,0	994,0	91,1	4572	20-out-05	4,7	65,2	51,0	992,0	91,2	4677	20-out-05	6,0	66,7	51,0	994,0	91,2
4468	20-out-05	6,0	63,6	51,0	997,0	91,1	4573	20-out-05	5,0	62,5	51,0	979,0	91,2	4678	20-out-05	4,7	60,5	51,0	601,0	91,2
4469	20-out-05	5,5	56,7	51,0	993,0	91,1	4574	20-out-05	4,8	62,2	51,0	992,0	91,2	4679	20-out-05	4,6	62,8	51,0	969,0	91,2
4470	20-out-05	5,7	51,5	51,0	992,0	91,1	4575	20-out-05	4,6	59,9	51,0	994,0	91,2	4680	20-out-05	5,1	66,5	51,0	995,0	91,2
4471	20-out-05	5,5	51,5	51,0	993,0	91,1	4576	20-out-05	4,4	66,2	51,0	993,0	91,2	4681	20-out-05	4,6	64,4	51,0	996,0	91,2
4472	20-out-05	6,0	50,3	51,0	997,0	91,1	4577	20-out-05	4,8	67,3	51,0	992,0	91,2	4682	20-out-05	3,9	68,9	51,0	995,0	91,2
4473	20-out-05	4,7	52,7	51,0	991,0	91,1	4578	20-out-05	6,5	68,0	51,0	990,0	91,2	4683	20-out-05	4,8	62,4	51,0	990,0	91,2
4474	20-out-05	5,0	57,0	51,0	990,0	91,1	4579	20-out-05	5,1	63,0	51,0	995,0	91,2	4684	20-out-05	5,3	65,6	51,0	991,0	91,2
4475	20-out-05	4,6	58,7	51,0	739,0	91,1	4580	20-out-05	5,0	56,2	51,0	992,0	91,2	4685	20-out-05	4,8	62,3	51,0	994,0	91,2
4476	20-out-05	4,7	58,8	51,0	993,0	91,1	4581	20-out-05	5,1	60,6	50,0	994,0	91,2	4686	20-out-05	5,0	63,8	51,0	943,0	91,2
4477	20-out-05	5,0	60,1	51,0	999,0	91,2	4582	20-out-05	5,3	62,0	51,0	994,0	91,2	4687	20-out-05	4,7	65,3	51,0	991,0	91,2
4478	20-out-05	5,2	61,4	51,0	994,0	91,2	4583	20-out-05	4,4	60,0	50,0	709,0	91,2	4688	20-out-05	4,2	62,0	51,0	971,0	91,2
4479	20-out-05	5,7	55,4	51,0	991,0	91,1	4584	20-out-05	4,8	66,4	51,0	965,0	91,2	4689	20-out-05	4,6	63,6	51,0	991,0	91,2
4480	20-out-05	5,7	53,5	51,0	994,0	91,1	4585	20-out-05	5,8	68,3	51,0	979,0	91,2	4690	20-out-05	4,4	65,7	51,0	996,0	91,2
4481	20-out-05	4,8	53,2	51,0	992,0	91,1	4586	20-out-05	5,2	65,3	51,0	996,0	91,2	4691	20-out-05	4,7	63,5	51,0	993,0	91,2
4482	20-out-05	5,5	50,3	51,0	999,0	91,1	4587	20-out-05	5,3	62,2	51,0	997,0	91,2	4692	28-out-05	7,4	54,3	47,0	997,0	73,9
4483	20-out-05	5,2	55,5	51,0	995,0	91,1	4588	20-out-05	5,7	62,2	50,0	995,0	91,2	4693	28-out-05	5,8	56,0	47,0	1012,0	73,9
4484	20-out-05	6,5	57,8	51,0	795,0	91,2	4589	20-out-05	5,1	60,7	51,0	979,0	91,2	4694	28-out-05	7,5	56,2	47,0	998,0	73,9
4485	20-out-05	5,5	57,7	51,0	993,0	91,1	4590	20-out-05	5,3	62,7	51,0	722,0	91,2	4695	28-out-05	5,3	56,6	47,0	1000,0	73,9
4486	20-out-05	6,5	58,0	51,0	996,0	91,1	4591	20-out-05	4,6	58,9	51,0	992,0	91,2	4696	28-out-05	5,2	61,2	47,0	1006,0	74,0
4487	20-out-05	5,1	57,9	51,0	995,0	91,1	4592	20-out-05	4,6	59,5	51,0	993,0								

4497	20-out-05	4,7	49,4	51,0	721,0	91,1	4602	20-out-05	5,6	56,6	51,0	991,0	91,2	4707	28-out-05	6,7	65,8	47,0	990,0	74,0
4498	20-out-05	4,7	49,3	51,0	999,0	91,1	4603	20-out-05	5,6	63,7	51,0	993,0	91,2	4708	28-out-05	6,0	61,5	47,0	1012,0	74,0
4499	20-out-05	5,0	49,8	51,0	991,0	91,1	4604	20-out-05	5,5	65,5	51,0	993,0	91,2	4709	28-out-05	7,5	63,1	47,0	1007,0	74,0
4500	20-out-05	5,2	59,2	51,0	999,0	91,1	4605	20-out-05	4,8	65,7	51,0	966,0	91,2	4710	28-out-05	7,1	68,5	47,0	1015,0	74,0
4501	20-out-05	6,4	62,6	51,0	999,0	91,2	4606	20-out-05	7,2	65,9	51,0	994,0	91,2	4711	28-out-05	7,7	64,0	47,0	1009,0	74,0
4502	20-out-05	5,2	64,0	51,0	999,0	91,1	4607	20-out-05	5,7	63,2	51,0	996,0	91,2	4712	28-out-05	7,6	64,6	47,0	981,0	74,0
4503	20-out-05	5,1	59,2	51,0	969,0	91,1	4608	20-out-05	5,7	64,9	51,0	996,0	91,2	4713	28-out-05	7,6	69,0	47,0	981,0	74,0
4504	20-out-05	6,6	55,4	51,0	992,0	91,1	4609	20-out-05	4,2	61,1	51,0	990,0	91,2	4714	28-out-05	8,5	62,1	47,0	1011,0	74,0
4505	20-out-05	6,7	53,4	51,0	992,0	91,1	4610	20-out-05	4,6	60,7	51,0	990,0	91,2	4715	28-out-05	16,5	56,7	47,0	956,0	74,0
4506	20-out-05	4,7	53,0	51,0	994,0	91,1	4611	20-out-05	4,8	63,3	51,0	994,0	91,2	4716	28-out-05	7,6	68,6	47,0	1016,0	74,0
4507	20-out-05	5,3	53,2	51,0	994,0	91,1	4612	20-out-05	4,8	57,8	51,0	994,0	91,2	4717	28-out-05	8,3	63,2	47,0	1001,0	74,0
4508	20-out-05	5,3	51,1	51,0	994,0	91,1	4613	20-out-05	5,2	57,4	51,0	993,0	91,2	4718	28-out-05	7,4	59,4	47,0	1013,0	74,0
4509	20-out-05	5,7	55,8	51,0	992,0	91,1	4614	20-out-05	4,4	61,0	51,0	994,0	91,2	4719	28-out-05	6,9	63,9	47,0	1015,0	74,0
4720	28-out-05	8,5	66,6	47,0	1012,0	74,0	4825	28-out-05	10,3	67,7	47,0	999,0	74,0	4930	28-out-05	18,4	60,2	47,0	997,0	79,3
4721	28-out-05	7,4	67,5	47,0	1030,0	74,0	4826	28-out-05	10,4	65,4	47,0	1013,0	74,0	4931	28-out-05	18,0	62,0	47,0	991,0	79,3
4722	28-out-05	7,2	61,8	47,0	989,0	74,0	4827	28-out-05	9,4	55,7	47,0	986,0	74,0	4932	28-out-05	18,5	60,2	47,0	1029,0	79,3
4723	28-out-05	8,1	69,1	47,0	1010,0	74,0	4828	28-out-05	10,4	61,2	47,0	978,0	74,0	4933	28-out-05	15,6	63,4	47,0	1007,0	79,3
4724	28-out-05	7,9	63,5	47,0	1013,0	74,0	4829	28-out-05	8,6	69,2	47,0	1011,0	74,1	4934	28-out-05	18,7	60,9	47,0	1053,0	79,3
4725	28-out-05	7,5	69,9	47,0	1030,0	74,0	4830	28-out-05	8,3	60,1	47,0	975,0	74,0	4935	28-out-05	17,9	58,8	47,0	968,0	77,7
4726	28-out-05	6,5	60,8	47,0	1028,0	74,0	4831	28-out-05	7,4	66,3	47,0	1005,0	74,0	4936	28-out-05	13,5	62,2	47,0	1044,0	77,7
4727	28-out-05	7,4	69,8	47,0	1019,0	74,0	4832	28-out-05	6,9	68,1	47,0	987,0	74,0	4937	28-out-05	17,3	59,8	47,0	1017,0	77,7
4728	28-out-05	6,4	64,9	47,0	1027,0	74,1	4833	28-out-05	6,4	64,6	47,0	1003,0	74,1	4938	28-out-05	17,3	59,1	47,0	1010,0	77,7
4729	28-out-05	8,0	60,2	47,0	976,0	74,0	4834	28-out-05	6,5	58,2	47,0	1004,0	74,0	4939	28-out-05	17,1	61,8	47,0	1060,0	77,7
4730	28-out-05	7,6	67,0	47,0	1020,0	74,0	4835	28-out-05	4,2	65,7	47,0	1000,0	74,1	4940	28-out-05	18,4	59,4	47,0	1007,0	77,7
4731	28-out-05	9,0	61,4	47,0	1023,0	74,0	4836	28-out-05	5,6	68,9	47,0	996,0	74,1	4941	28-out-05	15,7	60,7	47,0	885,0	77,7
4732	28-out-05	7,2	58,9	47,0	989,0	74,1	4837	28-out-05	6,6	64,0	47,0	968,0	74,1	4942	28-out-05	18,7	64,6	47,0	1030,0	77,7
4733	28-out-05	7,1	60,4	47,0	998,0	74,0	4838	28-out-05	6,5	60,5	47,0	984,0	74,0	4943	28-out-05	17,7	59,1	47,0	934,0	77,7
4734	28-out-05	9,3	58,9	47,0	1034,0	74,0	4839	28-out-05	6,9	64,6	47,0	982,0	74,0	4944	28-out-05	18,5	59,3	47,0	989,0	77,7
4735	28-out-05	8,5	62,0	47,0	1016,0	74,0	4840	28-out-05	7,6	64,1	47,0	1008,0	74,0	4945	28-out-05	17,7	60,1	47,0	1023,0	77,7
4736	28-out-05	7,9	54,0	47,0	1006,0	74,0	4841	28-out-05	6,2	57,9	47,0	989,0	74,0	4946	28-out-05	15,2	59,8	47,0	1042,0	77,7
4737	28-out-05	7,6	57,7	47,0	990,0	74,0	4842	28-out-05	6,1	58,7	47,0	1005,0	74,0	4947	28-out-05	19,1	64,3	47,0	976,0	77,7
4738	28-out-05	7,9	56,6	47,0	1029,0	74,0	4843	28-out-05	5,3	62,7	47,0	1007,0	74,0	4948	28-out-05	17,4	63,7	47,0	999,0	77,7
4739	28-out-05	7,7	56,1	47,0	1013,0	74,0	4844	28-out-05	7,4	64,7	47,0	1001,0	74,0	4949	28-out-05	19,9	63,6	47,0	1035,0	77,7
4740	28-out-05	8,4	59,3	47,0	1000,0	74,0	4845	28-out-05	8,0	60,4	47,0	1008,0	74,1	4950	28-out-05	18,0	65,5	46,0	938,0	77,7
4741	28-out-05	7,4	60,0	47,0	1014,0	74,0	4846	28-out-05	7,2	65,2	47,0	981,0	74,0	4951	28-out-05	17,1	65,6	47,0	1017,0	77,7
4742	28-out-05	7,7	58,5	47,0	1013,0	74,0	4847	28-out-05	8,8	71,1	47,0	1005,0	74,1	4952	28-out-05	18,8	65,0	47,0	948,0	77,7
4743	28-out-05	7,0	58,6	47,0	986,0	74,0	4848	28-out-05	9,7	63,1	47,0	1002,0	74,0	4953	28-out-05	14,2	56,4	47,0	928,0	77,7
4744	28-out-05	7,0	60,3	47,0	1009,0	74,0	4849	28-out-05	11,2	56,8	47,0	999,0	74,0	4954	28-out-05	16,9	58,5	47,0	1007,0	77,7
4745	28-out-05	7,7	55,0	47,0	1033,0	74,0	4850	28-out-05	10,5	65,7	47,0	961,0	74,0	4955	28-out-05	17,7	63,1	47,0	955,0	77,7
4746	28-out-05	8,6	58,1	47,0	1013,0	74,0	4851	28-out-05	8,4	68,7	47,0	1013,0	74,1	4956	28-out-05	17,5	58,6	47,0	1030,0	77,7
4747	28-out-05	7,6	59,0	47,0	982,0	74,0	4852	28-out-05	10,5	68,2	47,0	1012,0	74,1	4957	28-out-05	17,4	60,9	46,0	779,0	77,7
4748	28-out-05	8,9	61,8	47,0	1000,0	74,0	4853	28-out-05	10,9	62,4	47,0	1012,0	74,0	4958	28-out-05	17,0	61,6	47,0	1049,0	77,7
4749	28-out-05	7,7	59,9	47,0	1026,0	74,0	4854	28-out-05	13,0	69,2	47,0	1006,0	74,1	4959	28-out-05	19,2	62,1	47,0	915,0	77,7
4750	28-out-05	8,4	59,3	47,0	1023,0	74,0	4855	28-out-05	9,4	65,4	47,0	943,0	74,1	4960	28-out-05	15,9	65,5	47,0	1015,0	77,7
4751	28-out-05	8,5	61,3	47,0	1016,0	74,0	4856	28-out-05	12,2	64,5	47,0	1011,0	74,1	4961	28-out-05	17,7	60,5	47,0	1010,0	77,7
4752	28-out-05	8,1	63,8	47,0	1012,0	74,0	4857	28-out-05	11,6	69,0	47,0	1016,0	74,1	4962	28-out-05	17,3	66,6	47,0	1024,0	77,7
4753	28-out-05	8,1	56,6	47,0	915,0	74,0	4858	28-out-05	13,2	68,8	47,0	1010,0	74,1	4963	28-out-05	20,1	64,7	47,0	988,0	77,7
4754	28-out-05	8,4	59,8	47,0	976,0	74,0	4859	28-out-05	10,7	64,2	47,0	979,0	74,1	4964	28-out-05	16,3	63,5	47,0	1026,0	77,7
4755	28-out-05	7,7	60,1	47,0	1014,0	74,0	4860	28-out-05	11,6	63,3	47,0	1012,0	74,0	4965	28-out-05	16,8	60,3	46,0	902,0	77,7
4756	28-out-05	9,9	61,2	47,0	1023,0	88,0	4861	28-out-05	14,1	67,7	47,0	1007,0	74,1	4966	28-out-05	16,4	59,0	47,0	1063,0	77,7
4757	28-out-05	8,9	60,6	47,0	1056,0	74,0	4862	28-out-05	12,8	69,4	47,0	1020,0	74,1	4967	28-out-05	15,4	61,1	47,0	927,0	77,7
4758	28-out-05	9,1	62,4	47,0	1014,0	74,0	4863	28-out-05	12,1	66,6	47,0	996,0	74,1	4968	28-out-05	16,9	59,3	47,0	994,0	77,7
4759	28-out-05	8,3	55,3	47,0	1014,0	74,0	4864	28-out-05	11,8	65,2	47,0	998,0	74,0	4969	28-out-05	18,9	61,7	46,0	969,0	77,7
4760	28-out-05	8,3	54,2	47,0	1007,0	74,0	4865	28-out-05	12,8	65,6	47,0	988,0	74,1	4970	28-out-05	17,4	60,1	47,0	981,0	77,7
4761	28-out-05	7,9	60,3	47,0	1019,0	74,0	4866	28-out-05	12,3	62,2	47,0	982,0	74,1	4971	28-out-05	18,3	57,8	47,0	1015,0	77,7
4762	28-out-05	8,9	62,5	47,0	1023,0	74,0	4867	28-out-05	15,1	61,3	47,0	972,0	74,0	4972	28-out-05	20,2	59,9	47,0	910,0	77,7
4763	28-out-05	7,0	56,9	47,0	999,0	74,0	4868	28-out-05	12,3	66,7	47,0	1009,0	74,1	4973	28-out-05	16,9	61,7	46,0	1037,0	77,7
4764	28-out-05	7,4	59,8	47,0	1014,0	74,0	4869	28-out-05	13,8	62,6	47,0	1018,0	74,0	4974	28-out-05	18,0	63,7	47,0	1039,0	77,7
4765	28-out-05	7,4	60,4	47,0	1016,0	74,0	4870	28-out-05	13,8	63,6	47,0	1017,0	74,1	4975	28-out-05	17,9	65,3	47,0	1032,0	77,7
4766	28-out-05	8,5	57,5	47,0	1022,0	74,0	4871	28-out-05	12,2	61,8	47,0	1008,0	74,0	4976	28-out-05	19,4	67,7	47,0	1023,0	77,7
4767	28-out-05	8,8	60,2	47,0	1030,0	74,0	4872	28-out-05	13,5	63,8	47,0	1006,0	74,0	4977	28-out-05					

4778	28-out-05	8,5	59,6	47,0	1012,0	74,0	4883	28-out-05	9,9	58,1	47,0	978,0	79,7	4988	28-out-05	18,8	61,6	47,0	927,0	70,3
4779	28-out-05	7,6	67,1	47,0	1014,0	74,0	4884	28-out-05	10,4	58,2	47,0	988,0	79,2	4989	28-out-05	18,3	62,1	46,0	985,0	70,3
4780	28-out-05	8,1	64,9	47,0	1006,0	74,0	4885	28-out-05	10,9	56,3	47,0	900,0	79,1	4990	28-out-05	17,9	59,1	46,0	1023,0	70,3
4781	28-out-05	7,4	62,6	47,0	1019,0	74,0	4886	28-out-05	12,8	57,7	47,0	982,0	70,7	4991	28-out-05	19,8	68,6	46,0	1017,0	77,8
4782	28-out-05	8,4	64,6	47,0	1018,0	74,0	4887	28-out-05	11,2	54,2	47,0	995,0	70,1	4992	28-out-05	17,3	63,9	46,0	913,0	79,7
4783	28-out-05	7,7	64,9	47,0	1030,0	74,0	4888	28-out-05	13,2	60,7	47,0	1023,0	79,0	4993	28-out-05	20,8	58,8	46,0	999,0	73,2
4784	28-out-05	8,0	58,8	47,0	985,0	74,0	4889	28-out-05	12,4	60,7	47,0	898,0	79,7	4994	28-out-05	20,7	64,3	47,0	1009,0	67,1
4785	28-out-05	8,5	63,3	47,0	992,0	74,0	4890	28-out-05	12,3	63,5	47,0	1019,0	79,7	4995	28-out-05	22,2	61,7	47,0	899,0	77,7
4786	28-out-05	7,9	71,2	47,0	1015,0	74,1	4891	28-out-05	12,4	60,7	47,0	1054,0	79,7	4996	28-out-05	27,8	66,3	47,0	1026,0	68,3
4787	28-out-05	8,8	67,5	47,0	1012,0	74,1	4892	28-out-05	13,0	60,7	47,0	986,0	70,7	4997	28-out-05	25,1	57,7	47,0	1020,0	78,2
4788	28-out-05	7,6	63,9	47,0	1027,0	84,0	4893	28-out-05	13,0	60,0	47,0	1015,0	70,7	4998	28-out-05	26,3	55,6	47,0	1060,0	88,5
4789	28-out-05	7,5	67,5	47,0	1009,0	74,1	4894	28-out-05	13,8	61,8	47,0	977,0	79,3	4999	28-out-05	17,4	57,9	47,0	1010,0	78,0
4790	28-out-05	7,1	69,9	47,0	902,0	74,1	4895	28-out-05	15,2	62,7	47,0	1028,0	79,3	5000	28-out-05	10,0	56,5	48,0	1037,0	82,9
4791	28-out-05	7,4	66,1	47,0	1004,0	74,1	4896	28-out-05	17,0	65,1	47,0	905,0	79,3	5001	28-out-05	13,1	57,5	48,0	1051,0	87,9
4792	28-out-05	8,3	63,8	47,0	1015,0	74,0	4897	28-out-05	14,4	62,2	47,0	1048,0	79,3	5002	28-out-05	14,2	58,8	49,0	1016,0	77,7
4793	28-out-05	8,1	64,4	47,0	1003,0	74,1	4898	28-out-05	12,4	55,6	47,0	929,0	79,3	5003	28-out-05	16,0	64,9	49,0	1022,0	77,7
4794	28-out-05	8,8	63,3	47,0	1007,0	74,0	4899	28-out-05	15,4	58,0	47,0	1042,0	79,3	5004	28-out-05	15,6	62,6	49,0	1006,0	77,7
4795	28-out-05	8,8	58,6	47,0	999,0	74,0	4900	28-out-05	15,2	58,2	47,0	1052,0	79,3	5005	28-out-05	21,1	62,2	49,0	989,0	70,7
4796	28-out-05	8,5	61,7	47,0	987,0	74,0	4901	28-out-05	16,6	56,5	47,0	1008,0	79,3	5006	28-out-05	16,1	62,5	49,0	1029,0	71,7
4797	28-out-05	7,5	67,1	47,0	1015,0	74,0	4902	28-out-05	15,5	57,9	47,0	1038,0	79,3	5007	28-out-05	15,6	61,1	49,0	953,0	72,8
4798	28-out-05	9,1	62,6	47,0	1002,0	74,0	4903	28-out-05	15,9	62,0	47,0	976,0	79,3	5008	28-out-05	18,5	55,1	49,0	1040,0	77,7
4799	28-out-05	7,6	61,6	47,0	1025,0	74,0	4904	28-out-05	14,5	58,8	47,0	1029,0	79,3	5009	28-out-05	16,6	62,6	49,0	1000,0	77,7
4800	28-out-05	7,6	66,9	47,0	1020,0	74,0	4905	28-out-05	14,9	58,6	47,0	946,0	79,3	5010	28-out-05	17,9	57,5	49,0	955,0	77,7
4801	28-out-05	8,0	63,9	47,0	1009,0	74,0	4906	28-out-05	13,7	59,5	47,0	747,0	79,3	5011	28-out-05	16,6	57,3	49,0	778,0	77,7
4802	28-out-05	9,0	63,4	47,0	1005,0	74,0	4907	28-out-05	16,1	61,8	47,0	1047,0	79,3	5012	28-out-05	18,0	59,6	49,0	1016,0	77,7
4803	28-out-05	8,0	63,9	47,0	962,0	74,0	4908	28-out-05	14,9	60,0	47,0	1014,0	79,3	5013	28-out-05	16,6	56,2	49,0	1046,0	77,7
4804	28-out-05	8,5	66,4	47,0	1006,0	74,0	4909	28-out-05	13,8	59,6	47,0	1042,0	79,3	5014	28-out-05	16,5	54,9	49,0	922,0	77,7
4805	28-out-05	8,9	57,7	47,0	951,0	74,0	4910	28-out-05	16,8	62,7	47,0	961,0	79,3	5015	28-out-05	20,7	57,6	49,0	990,0	77,7
4806	28-out-05	8,4	60,2	47,0	1005,0	74,0	4911	28-out-05	16,0	57,9	47,0	1016,0	79,3	5016	28-out-05	17,7	55,4	49,0	998,0	77,7
4807	28-out-05	8,6	63,9	47,0	982,0	74,0	4912	28-out-05	13,1	58,0	47,0	1039,0	79,3	5017	28-out-05	16,9	52,7	49,0	957,0	77,7
4808	28-out-05	9,8	64,1	47,0	1000,0	74,0	4913	28-out-05	15,4	60,3	47,0	1051,0	79,3	5018	28-out-05	16,1	59,2	50,0	1012,0	77,7
4809	28-out-05	8,3	60,5	47,0	1021,0	74,0	4914	28-out-05	15,2	59,4	47,0	819,0	79,3	5019	28-out-05	17,5	56,1	50,0	1007,0	77,7
4810	28-out-05	9,4	59,5	47,0	1025,0	74,0	4915	28-out-05	13,5	51,9	47,0	1046,0	79,2	5020	28-out-05	17,9	54,9	50,0	1047,0	77,7
4811	28-out-05	9,7	64,2	47,0	1021,0	74,0	4916	28-out-05	17,5	58,3	47,0	1052,0	79,3	5021	28-out-05	15,2	54,8	50,0	961,0	77,7
4812	28-out-05	11,2	60,2	47,0	992,0	74,0	4917	28-out-05	14,6	58,7	47,0	1012,0	79,3	5022	28-out-05	16,1	56,0	50,0	1049,0	77,7
4813	28-out-05	9,5	60,0	47,0	987,0	74,0	4918	28-out-05	16,0	59,1	47,0	949,0	79,3	5023	28-out-05	18,9	59,3	50,0	975,0	77,7
4814	28-out-05	10,8	61,3	47,0	1006,0	74,0	4919	28-out-05	17,8	59,3	47,0	1012,0	79,3	5024	28-out-05	16,3	61,3	50,0	1015,0	77,7
4815	28-out-05	9,0	65,3	47,0	1023,0	74,0	4920	28-out-05	18,0	64,4	47,0	883,0	79,3	5025	28-out-05	15,4	57,5	50,0	1038,0	77,7
4816	28-out-05	9,7	60,4	47,0	985,0	74,0	4921	28-out-05	14,4	59,1	47,0	1003,0	79,3	5026	28-out-05	19,9	64,9	50,0	993,0	77,7
4817	28-out-05	9,7	61,1	47,0	915,0	74,0	4922	28-out-05	15,1	64,8	47,0	1056,0	79,3	5027	28-out-05	13,6	51,5	50,0	1046,0	77,7
4818	28-out-05	10,9	61,6	47,0	1035,0	74,0	4923	28-out-05	17,8	65,1	47,0	1007,0	79,3	5028	28-out-05	17,7	62,3	50,0	910,0	77,7
4819	28-out-05	9,9	60,3	47,0	1025,0	74,0	4924	28-out-05	15,7	60,4	47,0	930,0	79,3	5029	28-out-05	15,7	57,2	50,0	1037,0	77,7
4820	28-out-05	8,5	56,4	47,0	1006,0	74,0	4925	28-out-05	19,1	59,1	47,0	998,0	79,3	5030	28-out-05	14,9	56,6	50,0	1056,0	77,7
4821	28-out-05	10,7	61,5	47,0	1037,0	74,0	4926	28-out-05	19,1	55,0	47,0	900,0	79,3	5031	28-out-05	17,8	60,0	50,0	796,0	77,7
4822	28-out-05	9,4	68,6	47,0	982,0	74,1	4927	28-out-05	16,9	61,8	47,0	1005,0	79,3	5032	28-out-05	16,4	55,6	50,0	1014,0	77,7
4823	28-out-05	10,0	58,4	47,0	1015,0	74,0	4928	28-out-05	19,2	62,8	47,0	1030,0	79,3	5033	28-out-05	14,7	59,7	50,0	1047,0	77,7
4824	28-out-05	11,4	62,9	47,0	1040,0	74,0	4929	28-out-05	17,1	59,9	47,0	1033,0	79,3	5034	28-out-05	19,9	63,5	50,0	1045,0	77,7
5035	28-out-05	16,8	57,8	50,0	1004,0	77,7	5140	28-out-05	16,4	64,1	46,0	1007,0	88,2	5245	28-out-05	18,4	55,4	49,0	912,0	88,1
5036	28-out-05	17,7	56,7	50,0	1052,0	77,7	5141	28-out-05	16,6	58,5	46,0	984,0	88,2	5246	28-out-05	17,9	57,9	49,0	998,0	88,2
5037	28-out-05	14,1	49,9	50,0	1059,0	77,7	5142	28-out-05	18,2	62,4	46,0	1048,0	88,2	5247	28-out-05	16,9	66,5	49,0	1034,0	88,2
5038	28-out-05	18,2	55,8	50,0	1048,0	77,7	5143	28-out-05	16,9	56,6	46,0	995,0	88,2	5248	28-out-05	16,8	52,3	49,0	1033,0	88,1
5039	28-out-05	19,3	56,0	50,0	1048,0	77,7	5144	28-out-05	14,9	56,6	46,0	1051,0	88,2	5249	28-out-05	20,2	71,6	49,0	1041,0	88,2
5040	28-out-05	15,6	53,4	50,0	1032,0	77,7	5145	28-out-05	17,4	55,0	46,0	1009,0	88,2	5250	28-out-05	16,8	57,0	49,0	1036,0	88,2
5041	28-out-05	17,7	53,2	50,0	907,0	77,7	5146	28-out-05	15,0	56,9	46,0	1034,0	88,2	5251	28-out-05	17,1	64,4	49,0	952,0	88,1
5042	28-out-05	16,0	58,3	50,0	702,0	77,7	5147	28-out-05	16,0	60,8	46,0	1015,0	88,2	5252	28-out-05	16,9	54,4	49,0	1047,0	88,1
5043	28-out-05	15,1	56,4	50,0	1051,0	77,7	5148	28-out-05	19,4	58,3	46,0	984,0	88,2	5253	28-out-05	15,7	62,3	49,0	1036,0	88,2
5044	28-out-05	15,6	54,1	50,0	1007,0	77,7	5149	28-out-05	16,9	57,9	46,0	1037,0	88,2	5254	28-out-05	18,3	54,3	49,0	1002,0	88,2
5045	28-out-05	14,7	54,4	50,0	992,0	77,7	5150	28-out-05	14,9	51,1	46,0	761,0	88,1	5255	28-out-05	16,9	57,6	49,0	1040,0	88,2
5046	28-out-05	17,7	56,8	50,0	1023,0	77,7	5151	28-out-05	16,6	52,9	46,0	883,0	88,1	5256	28-out-05	14,7	54,6	49,0	1046,0	88,2
5047	28-out-05	17,9	57,7	50,0	1035,0	77,7	5152	28-out-05	15,1	57,4	46,0	1042,0	88,2	5257	28-out-05	16,6	67,3	49,0	1033,0	88,2
5048	28-out-05	15,1	59,3	50,0	1003,0	77,7</														

5059	28-out-05	17,3	57,0	50,0	1017,0	77,7	5164	28-out-05	16,5	61,8	46,0	1041,0	88,2	5269	28-out-05	15,5	58,4	49,0	1027,0	88,1
5060	28-out-05	13,8	58,7	50,0	1036,0	77,7	5165	28-out-05	19,6	66,2	46,0	915,0	88,2	5270	28-out-05	15,5	60,0	48,0	1032,0	88,2
5061	28-out-05	16,9	55,2	50,0	1013,0	77,7	5166	28-out-05	15,9	63,5	46,0	986,0	88,2	5271	28-out-05	17,8	59,6	48,0	1039,0	88,2
5062	28-out-05	15,6	60,4	50,0	994,0	77,7	5167	28-out-05	15,2	53,4	46,0	987,0	88,2	5272	28-out-05	16,3	58,5	48,0	1046,0	88,2
5063	28-out-05	16,4	57,2	50,0	1043,0	77,7	5168	28-out-05	18,2	59,9	46,0	1045,0	88,2	5273	28-out-05	17,5	62,7	48,0	1030,0	88,2
5064	28-out-05	16,3	54,5	50,0	1036,0	77,7	5169	28-out-05	17,0	57,7	46,0	1055,0	88,2	5274	28-out-05	16,3	53,4	48,0	770,0	88,1
5065	28-out-05	16,3	56,9	50,0	1025,0	77,7	5170	28-out-05	15,2	58,3	46,0	1050,0	88,2	5275	28-out-05	14,2	62,2	48,0	1037,0	88,2
5066	28-out-05	16,6	53,5	50,0	999,0	77,7	5171	28-out-05	15,4	56,6	46,0	993,0	88,2	5276	28-out-05	13,7	59,7	48,0	1045,0	88,1
5067	28-out-05	16,8	56,9	50,0	995,0	77,7	5172	28-out-05	16,5	62,8	46,0	1046,0	88,2	5277	28-out-05	15,1	58,8	48,0	1040,0	88,1
5068	28-out-05	16,1	57,3	50,0	757,0	77,7	5173	28-out-05	15,9	54,0	46,0	1007,0	88,2	5278	28-out-05	15,9	55,7	47,0	1033,0	88,1
5069	28-out-05	16,6	53,5	50,0	992,0	77,7	5174	28-out-05	16,9	59,7	46,0	1027,0	88,2	5279	28-out-05	16,4	61,1	47,0	965,0	88,1
5070	28-out-05	16,8	54,4	50,0	995,0	77,7	5175	28-out-05	17,3	58,3	46,0	1036,0	88,2	5280	28-out-05	19,2	55,8	47,0	948,0	88,2
5071	28-out-05	16,0	50,4	50,0	1032,0	77,7	5176	28-out-05	18,7	65,9	46,0	997,0	88,2	5281	28-out-05	14,9	57,3	47,0	1007,0	88,1
5072	28-out-05	14,5	57,5	50,0	1014,0	77,7	5177	28-out-05	19,3	59,8	46,0	1007,0	88,2	5282	28-out-05	13,6	54,8	47,0	1033,0	88,1
5073	28-out-05	17,0	58,0	50,0	1046,0	77,7	5178	28-out-05	20,3	64,1	46,0	1043,0	88,2	5283	28-out-05	15,5	60,3	47,0	850,0	88,1
5074	28-out-05	16,9	52,4	50,0	1031,0	77,7	5179	28-out-05	16,3	60,0	46,0	1034,0	88,2	5284	28-out-05	16,3	63,3	47,0	1000,0	88,1
5075	28-out-05	15,9	56,6	50,0	1023,0	77,7	5180	28-out-05	18,2	63,2	46,0	1004,0	88,2	5285	28-out-05	17,4	57,3	47,0	968,0	88,2
5076	28-out-05	16,5	54,9	50,0	996,0	77,7	5181	28-out-05	17,5	63,2	46,0	1009,0	88,2	5286	28-out-05	19,1	63,0	47,0	998,0	88,1
5077	28-out-05	16,5	54,9	50,0	1031,0	77,7	5182	28-out-05	17,5	60,6	46,0	877,0	88,2	5287	28-out-05	15,0	60,6	47,0	1042,0	88,1
5078	28-out-05	16,0	56,4	50,0	999,0	77,7	5183	28-out-05	18,5	58,5	46,0	1030,0	88,2	5288	28-out-05	15,6	57,6	47,0	1034,0	88,2
5079	28-out-05	15,9	52,2	50,0	1044,0	77,7	5184	28-out-05	20,1	57,6	46,0	990,0	88,2	5289	28-out-05	17,5	53,4	47,0	1031,0	88,1
5080	28-out-05	14,2	53,3	50,0	1032,0	77,7	5185	28-out-05	18,3	55,5	46,0	969,0	88,2	5290	28-out-05	17,3	58,8	46,0	957,0	88,2
5081	28-out-05	16,9	59,4	50,0	1027,0	77,7	5186	28-out-05	16,5	55,1	46,0	1039,0	88,2	5291	28-out-05	16,5	55,7	46,0	1046,0	88,1
5082	28-out-05	17,3	58,2	50,0	1047,0	77,7	5187	28-out-05	14,1	55,9	46,0	991,0	88,2	5292	28-out-05	18,0	66,9	47,0	1019,0	88,2
5083	28-out-05	19,9	66,1	50,0	1035,0	77,7	5188	28-out-05	17,3	58,2	46,0	1015,0	88,2	5293	28-out-05	15,1	59,1	46,0	1022,0	88,2
5084	28-out-05	15,4	57,9	50,0	1058,0	77,7	5189	28-out-05	15,6	59,5	46,0	1013,0	88,2	5294	28-out-05	17,5	60,6	46,0	992,0	88,2
5085	28-out-05	16,9	59,5	50,0	1045,0	77,7	5190	28-out-05	17,9	56,8	46,0	1035,0	88,2	5295	28-out-05	17,3	58,5	46,0	757,0	88,1
5086	28-out-05	16,6	56,9	50,0	1046,0	77,7	5191	28-out-05	18,2	60,2	46,0	1032,0	88,2	5296	28-out-05	17,1	53,8	46,0	709,0	88,1
5087	28-out-05	16,3	57,4	50,0	1008,0	77,7	5192	28-out-05	17,9	61,3	46,0	1048,0	88,2	5297	28-out-05	17,8	52,2	46,0	965,0	88,1
5088	28-out-05	16,1	57,5	50,0	711,0	77,7	5193	28-out-05	17,0	68,8	46,0	992,0	88,2	5298	28-out-05	17,7	55,2	46,0	1030,0	88,1
5089	28-out-05	14,6	55,2	50,0	1046,0	77,7	5194	28-out-05	18,5	63,2	46,0	998,0	88,2	5299	28-out-05	16,1	56,2	46,0	1023,0	88,1
5090	28-out-05	17,3	60,0	50,0	1036,0	77,7	5195	28-out-05	18,4	68,9	46,0	1006,0	88,2	5300	28-out-05	18,8	56,1	46,0	1000,0	88,1
5091	28-out-05	16,8	55,7	50,0	745,0	77,7	5196	28-out-05	16,5	61,8	46,0	1045,0	88,2	5301	28-out-05	15,9	53,8	46,0	987,0	88,1
5092	28-out-05	15,4	57,0	50,0	1012,0	77,7	5197	28-out-05	19,6	59,2	46,0	1061,0	88,2	5302	28-out-05	15,9	53,4	46,0	1004,0	88,1
5093	28-out-05	16,4	53,8	50,0	1000,0	77,7	5198	28-out-05	17,1	63,8	46,0	989,0	88,2	5303	28-out-05	15,7	55,2	46,0	1015,0	88,1
5094	28-out-05	15,2	56,2	50,0	1046,0	77,7	5199	28-out-05	19,8	62,2	46,0	881,0	88,2	5304	28-out-05	16,6	59,7	46,0	1048,0	88,2
5095	28-out-05	14,9	53,2	50,0	1029,0	77,7	5200	28-out-05	16,3	56,5	46,0	1043,0	88,2	5305	28-out-05	15,9	63,2	46,0	1022,0	88,2
5096	28-out-05	16,0	57,6	50,0	1018,0	77,7	5201	28-out-05	18,7	57,5	46,0	1004,0	88,2	5306	28-out-05	16,6	63,1	46,0	1030,0	88,2
5097	28-out-05	18,2	55,8	49,0	1037,0	77,7	5202	28-out-05	19,6	56,3	46,0	1046,0	88,2	5307	28-out-05	18,5	56,7	46,0	1025,0	88,2
5098	28-out-05	19,2	54,7	49,0	1038,0	77,7	5203	28-out-05	18,3	59,0	46,0	995,0	88,2	5308	28-out-05	17,1	60,2	46,0	1020,0	88,2
5099	28-out-05	15,7	56,4	49,0	1030,0	77,7	5204	28-out-05	16,4	58,3	46,0	1041,0	88,2	5309	28-out-05	18,2	56,9	46,0	1010,0	88,2
5100	28-out-05	14,5	52,9	49,0	1050,0	77,7	5205	28-out-05	20,7	60,5	46,0	984,0	88,2	5310	28-out-05	17,8	63,7	46,0	1010,0	88,2
5101	28-out-05	13,3	53,7	49,0	1036,0	77,7	5206	28-out-05	17,4	62,4	46,0	996,0	88,2	5311	28-out-05	17,1	57,6	46,0	967,0	88,2
5102	28-out-05	15,0	56,1	48,0	828,0	77,7	5207	28-out-05	18,8	54,4	46,0	1026,0	88,2	5312	28-out-05	14,6	57,9	46,0	895,0	88,1
5103	28-out-05	17,0	57,7	48,0	1004,0	77,7	5208	28-out-05	17,3	58,1	46,0	745,0	88,2	5313	28-out-05	17,9	62,0	46,0	1030,0	88,2
5104	28-out-05	16,4	59,6	48,0	1033,0	77,7	5209	28-out-05	16,0	63,7	47,0	1045,0	88,2	5314	28-out-05	17,5	55,0	46,0	975,0	88,1
5105	28-out-05	18,0	58,1	48,0	1046,0	77,7	5210	28-out-05	17,1	59,0	47,0	1001,0	88,2	5315	28-out-05	19,1	59,1	46,0	1030,0	88,2
5106	28-out-05	14,9	61,6	48,0	984,0	77,7	5211	28-out-05	18,7	60,7	47,0	1021,0	88,2	5316	28-out-05	15,7	55,1	46,0	1028,0	88,2
5107	28-out-05	16,4	58,4	48,0	1046,0	77,7	5212	28-out-05	17,5	56,4	47,0	1051,0	88,2	5317	28-out-05	20,2	66,3	46,0	1024,0	88,2
5108	28-out-05	16,8	54,7	47,0	786,0	77,7	5213	28-out-05	17,3	55,3	47,0	913,0	88,2	5318	28-out-05	16,1	65,2	46,0	940,0	88,2
5109	28-out-05	15,7	56,8	47,0	1046,0	77,7	5214	28-out-05	18,9	63,0	48,0	845,0	88,2	5319	28-out-05	17,9	58,9	46,0	961,0	88,2
5110	28-out-05	14,4	53,1	47,0	1047,0	77,7	5215	28-out-05	17,0	54,8	48,0	683,0	88,2	5320	28-out-05	18,9	61,3	46,0	1012,0	88,2
5111	28-out-05	15,2	59,1	47,0	967,0	77,7	5216	28-out-05	17,4	58,5	48,0	1002,0	88,2	5321	28-out-05	18,8	61,3	46,0	900,0	88,2
5112	28-out-05	16,3	56,7	47,0	1028,0	77,7	5217	28-out-05	17,0	65,1	48,0	1020,0	88,2	5322	28-out-05	17,4	65,1	46,0	1014,0	88,2
5113	28-out-05	17,1	61,5	47,0	795,0	77,7	5218	28-out-05	15,9	58,1	48,0	920,0	88,2	5323	28-out-05	13,6	61,3	46,0	1052,0	88,2
5114	28-out-05	16,3	56,0	47,0	1034,0	77,7	5219	28-out-05	19,3	57,1	48,0	1049,0	88,3	5324	28-out-05	17,8	63,4	46,0	1039,0	88,2
5115	28-out-05	18,2	63,5	47,0	1000,0	77,7	5220	28-out-05	17,9	59,6	49,0	1035,0	88,1	5325	28-out-05	16,3	56,4	46,0	1009,0	88,1
5116	28-out-05	15,2	54,2	47,0	953,0	77,7	5221	28-out-05	18,8	54,3	49,0	1001,0	88,1	5326	28-out-05	17,7	56,6	46,0	1008,0	88,2
5117	28-out-05	15,7	55,7	47,0	1022,0	78,0	5222	28-out-05	17,7	55,9	49,0	993,0	88,2	5327	28-out-05	17,0	57,9	46,0	985,0	88,2
5118	28-out-05	16,6	57,1	47,0	1051,0	78,0	5223	28-out-05	17,0	53,7	49,0	1060,0	88,2	5328	28-out-05	17,9	61,2	46,0	1020,0	88,2
5119	28-out-05</																			

5130	28-out-05	17,5	57,5	46,0	994,0	88,2	5235	28-out-05	18,4	57,8	49,0	886,0	88,2	5340	28-out-05	16,0	60,1	47,0	882,0	88,2
5131	28-out-05	16,5	58,4	46,0	1038,0	88,2	5236	28-out-05	15,4	59,5	49,0	1004,0	88,2	5341	28-out-05	15,4	68,9	47,0	1011,0	88,2
5132	28-out-05	15,7	57,3	46,0	1047,0	88,2	5237	28-out-05	18,5	58,7	49,0	925,0	88,2	5342	28-out-05	16,6	62,2	47,0	997,0	88,2
5133	28-out-05	18,3	59,0	46,0	989,0	88,2	5238	28-out-05	17,4	55,8	49,0	1038,0	88,1	5343	28-out-05	13,3	63,7	47,0	1001,0	88,2
5134	28-out-05	17,4	52,3	46,0	934,0	88,2	5239	28-out-05	17,4	55,2	49,0	1007,0	88,2	5344	28-out-05	18,4	64,8	47,0	1010,0	88,2
5135	28-out-05	14,6	54,5	46,0	1028,0	88,2	5240	28-out-05	16,0	53,8	49,0	1029,0	88,1	5345	28-out-05	15,0	62,2	48,0	1019,0	89,6
5136	28-out-05	14,0	59,9	46,0	976,0	88,2	5241	28-out-05	17,1	59,6	49,0	996,0	88,2	5346	28-out-05	16,1	64,7	48,0	985,0	89,6
5137	28-out-05	15,5	57,0	46,0	752,0	88,2	5242	28-out-05	20,8	62,7	49,0	932,0	88,2	5347	28-out-05	16,6	59,6	48,0	976,0	89,6
5138	28-out-05	16,0	63,4	46,0	976,0	88,2	5243	28-out-05	16,4	54,7	49,0	1030,0	88,1	5348	28-out-05	13,3	62,4	48,0	1008,0	89,6
5139	28-out-05	17,5	57,3	46,0	1007,0	88,2	5244	28-out-05	18,0	64,3	49,0	1032,0	88,2	5349	28-out-05	15,5	63,5	48,0	1004,0	89,6
5350	28-out-05	15,0	61,6	48,0	1001,0	89,6	5455	28-out-05	5,5	63,1	47,0	906,0	69,4	5560	28-out-05	15,5	69,9	46,0	894,0	73,3
5351	28-out-05	13,0	63,8	49,0	1002,0	89,6	5456	28-out-05	6,5	62,3	47,0	976,0	69,4	5561	28-out-05	13,7	73,7	46,0	889,0	73,3
5352	28-out-05	14,1	64,4	49,0	1049,0	89,8	5457	28-out-05	6,2	62,4	47,0	909,0	69,5	5562	28-out-05	16,5	75,1	46,0	909,0	73,3
5353	28-out-05	13,8	58,8	49,0	944,0	89,6	5458	28-out-05	6,5	62,0	47,0	944,0	69,5	5563	28-out-05	18,9	72,1	46,0	946,0	73,7
5354	28-out-05	15,1	60,2	49,0	986,0	89,6	5459	28-out-05	10,7	63,9	47,0	938,0	69,4	5564	28-out-05	13,3	67,4	46,0	1034,0	73,7
5355	28-out-05	15,2	60,5	49,0	1000,0	89,6	5460	28-out-05	8,9	63,3	47,0	893,0	69,5	5565	28-out-05	24,9	66,1	46,0	936,0	73,7
5356	28-out-05	17,7	57,4	49,0	945,0	89,6	5461	28-out-05	5,6	62,6	47,0	924,0	69,5	5566	28-out-05	18,9	65,5	46,0	947,0	73,7
5357	28-out-05	12,8	59,5	49,0	1029,0	89,6	5462	28-out-05	5,2	70,8	47,0	906,0	69,5	5567	28-out-05	11,9	66,7	46,0	984,0	73,7
5358	28-out-05	13,1	62,8	49,0	1000,0	89,6	5463	28-out-05	5,0	63,9	47,0	825,0	69,5	5568	28-out-05	17,7	65,0	46,0	989,0	73,7
5359	28-out-05	13,1	66,3	49,0	1002,0	89,6	5464	28-out-05	5,3	65,6	46,0	978,0	69,5	5569	28-out-05	14,5	67,6	46,0	1023,0	73,7
5360	28-out-05	12,6	60,9	49,0	969,0	89,6	5465	28-out-05	5,3	70,6	47,0	831,0	69,5	5570	28-out-05	16,3	67,5	46,0	1015,0	73,7
5361	28-out-05	12,8	66,8	49,0	1010,0	89,8	5466	28-out-05	5,2	59,2	47,0	797,0	69,5	5571	28-out-05	21,2	68,4	46,0	972,0	73,7
5362	28-out-05	15,4	58,8	49,0	982,0	89,6	5467	28-out-05	5,7	66,9	47,0	951,0	69,6	5572	28-out-05	14,0	71,8	46,0	1009,0	73,7
5363	28-out-05	15,6	62,0	49,0	995,0	89,6	5468	28-out-05	5,3	70,9	47,0	861,0	69,5	5573	28-out-05	16,3	68,7	46,0	1007,0	73,7
5364	28-out-05	8,6	59,3	49,0	977,0	89,6	5469	28-out-05	4,4	60,0	47,0	858,0	69,5	5574	28-out-05	13,3	65,2	46,0	952,0	73,7
5365	28-out-05	8,8	67,3	49,0	989,0	89,8	5470	28-out-05	4,4	67,2	46,0	923,0	69,5	5575	28-out-05	16,6	63,8	46,0	1017,0	73,7
5366	28-out-05	6,5	68,8	49,0	981,0	89,8	5471	28-out-05	6,1	57,3	47,0	773,0	69,5	5576	28-out-05	15,5	68,9	46,0	956,0	73,7
5367	28-out-05	15,2	67,3	49,0	994,0	90,2	5472	28-out-05	6,6	56,7	47,0	868,0	69,5	5577	28-out-05	16,8	66,1	46,0	1019,0	73,7
5368	28-out-05	8,5	75,0	49,0	969,0	97,0	5473	28-out-05	5,3	68,9	47,0	862,0	69,5	5578	28-out-05	15,0	63,9	46,0	1003,0	73,7
5369	28-out-05	12,1	70,1	49,0	899,0	81,9	5474	28-out-05	8,5	62,0	47,0	844,0	69,5	5579	28-out-05	15,0	60,2	46,0	984,0	73,7
5370	28-out-05	11,2	81,9	49,0	971,0	86,3	5475	28-out-05	7,2	58,2	47,0	823,0	69,5	5580	28-out-05	14,1	69,3	46,0	973,0	73,7
5371	28-out-05	11,8	76,8	49,0	961,0	74,8	5476	28-out-05	5,3	58,8	47,0	839,0	69,4	5581	28-out-05	13,8	66,4	46,0	927,0	73,7
5372	28-out-05	12,8	75,7	49,0	923,0	78,5	5477	28-out-05	5,1	62,4	46,0	861,0	69,5	5582	28-out-05	15,0	64,0	46,0	999,0	73,7
5373	28-out-05	9,8	63,7	49,0	921,0	79,9	5478	28-out-05	3,6	64,8	47,0	869,0	69,5	5583	28-out-05	14,1	67,4	46,0	1036,0	73,7
5374	28-out-05	16,0	79,6	49,0	933,0	81,1	5479	28-out-05	3,9	63,1	47,0	857,0	69,5	5584	28-out-05	19,4	69,7	46,0	943,0	73,7
5375	28-out-05	15,4	77,0	49,0	940,0	81,1	5480	28-out-05	5,2	69,3	47,0	807,0	69,6	5585	28-out-05	15,9	67,3	46,0	1034,0	73,7
5376	28-out-05	16,1	78,5	49,0	947,0	81,1	5481	28-out-05	5,0	66,3	47,0	915,0	69,5	5586	28-out-05	14,4	68,1	46,0	970,0	73,7
5377	28-out-05	16,9	66,1	49,0	940,0	81,1	5482	28-out-05	5,7	74,9	47,0	900,0	69,6	5587	28-out-05	18,2	70,1	46,0	930,0	73,7
5378	28-out-05	14,6	67,2	49,0	988,0	73,6	5483	28-out-05	5,6	67,9	47,0	934,0	69,6	5588	28-out-05	14,7	67,2	46,0	976,0	73,7
5379	28-out-05	16,9	63,5	49,0	985,0	68,8	5484	28-out-05	7,5	71,4	47,0	883,0	69,5	5589	28-out-05	17,5	60,8	46,0	962,0	73,7
5380	28-out-05	11,7	68,3	49,0	945,0	69,9	5485	28-out-05	7,2	67,3	46,0	905,0	69,5	5590	28-out-05	13,7	66,3	46,0	988,0	73,7
5381	28-out-05	14,0	73,0	49,0	931,0	69,9	5486	28-out-05	6,7	65,2	47,0	966,0	69,5	5591	28-out-05	15,7	64,6	46,0	1015,0	73,7
5382	28-out-05	12,7	63,6	49,0	974,0	70,2	5487	28-out-05	6,1	76,2	46,0	946,0	69,6	5592	28-out-05	16,8	61,6	46,0	977,0	73,7
5383	28-out-05	11,6	64,2	49,0	996,0	70,2	5488	28-out-05	5,6	73,2	47,0	930,0	69,6	5593	28-out-05	17,1	65,1	46,0	1026,0	73,7
5384	28-out-05	11,8	72,2	49,0	990,0	70,2	5489	28-out-05	12,1	75,6	47,0	928,0	69,6	5594	28-out-05	15,1	64,9	46,0	1001,0	73,7
5385	28-out-05	10,2	66,1	50,0	994,0	70,2	5490	28-out-05	7,0	72,0	46,0	948,0	69,6	5595	28-out-05	15,9	65,6	46,0	896,0	73,7
5386	28-out-05	8,8	68,6	49,0	1012,0	70,2	5491	28-out-05	11,9	72,1	46,0	954,0	69,6	5596	28-out-05	14,6	66,3	46,0	991,0	73,7
5387	28-out-05	8,6	63,0	50,0	978,0	70,2	5492	28-out-05	7,0	83,3	46,0	1004,0	69,6	5597	28-out-05	17,3	63,1	46,0	1002,0	73,7
5388	28-out-05	8,9	62,2	50,0	966,0	69,4	5493	28-out-05	6,5	83,7	46,0	959,0	69,6	5598	28-out-05	17,3	61,1	46,0	1002,0	73,7
5389	28-out-05	9,4	65,4	50,0	990,0	69,4	5494	28-out-05	9,8	80,7	46,0	938,0	69,6	5599	28-out-05	15,4	59,8	46,0	1024,0	73,7
5390	28-out-05	8,9	63,0	50,0	984,0	69,4	5495	28-out-05	15,5	78,6	46,0	968,0	69,6	5600	28-out-05	17,4	60,8	46,0	982,0	73,7
5391	28-out-05	8,0	63,1	50,0	998,0	69,4	5496	28-out-05	10,5	73,8	46,0	941,0	69,6	5601	28-out-05	16,5	62,1	46,0	1009,0	73,7
5392	28-out-05	8,3	62,8	50,0	982,0	69,4	5497	28-out-05	8,3	80,4	46,0	996,0	69,6	5602	28-out-05	15,9	61,2	46,0	1006,0	73,7
5393	28-out-05	9,0	58,8	50,0	958,0	69,4	5498	28-out-05	6,5	82,8	46,0	975,0	69,6	5603	28-out-05	19,7	62,7	46,0	988,0	73,7
5394	28-out-05	8,8	64,1	50,0	989,0	69,4	5499	28-out-05	10,5	76,4	46,0	982,0	69,6	5604	28-out-05	18,8	60,4	46,0	939,0	73,7
5395	28-out-05	8,8	66,4	50,0	963,0	69,5	5500	28-out-05	13,8	80,6	46,0	953,0	69,6	5605	28-out-05	17,1	58,6	46,0	984,0	73,7
5396	28-out-05	6,0	62,8	50,0	998,0	69,4	5501	28-out-05	6,1	80,7	46,0	935,0	69,6	5606	28-out-05	14,2	58,3	46,0	914,0	73,7
5397	28-out-05	8,5	66,0	50,0	984,0	69,5	5502	28-out-05	7,4	76,3	46,0	952,0	69,6	5607	28-out-05	15,0	58,6	46,0	907,0	73,7
5398	28-out-05	6,9	62,8	50,0	964,0	69,4	5503	28-out-05	12,1	78,1	46,0	976,0	69,6	5608	28-out-05	15,0	60,6	46,0	940,0	73,7
5399	28-out-05	6,6	68,1	50,0	985,0	69,5	5504	28-out-05	14,1	75,9	46,0	935,0	69,6	5609	28-out-05	15,5	61,2	46,0	984,0	73,7
5400	28-out-05	6,5	64,6	50,0	957,0	69,4	5505	28-out-05	7,0	74,3	46,0	971,0	69,6	5610	28-out-05	14,1</				

5411	28-out-05	6,6	71,2	50,0	1002,0	69,5	5516	28-out-05	9,9	72,1	46,0	948,0	69,5	5621	28-out-05	15,4	60,6	46,0	969,0	73,7
5412	28-out-05	7,1	67,1	50,0	945,0	69,5	5517	28-out-05	7,7	77,6	46,0	940,0	69,6	5622	28-out-05	15,5	67,9	46,0	1002,0	73,7
5413	28-out-05	9,1	67,8	50,0	996,0	69,5	5518	28-out-05	7,4	71,3	46,0	990,0	69,6	5623	28-out-05	16,8	58,4	46,0	1007,0	73,7
5414	28-out-05	7,4	67,0	50,0	961,0	69,5	5519	28-out-05	9,4	75,6	46,0	998,0	69,6	5624	28-out-05	13,8	62,7	46,0	969,0	73,7
5415	28-out-05	7,4	65,5	50,0	978,0	69,5	5520	28-out-05	12,4	70,3	46,0	968,0	69,6	5625	28-out-05	19,9	63,5	46,0	1014,0	73,7
5416	28-out-05	8,1	73,1	50,0	966,0	69,5	5521	28-out-05	9,4	70,5	46,0	1003,0	69,6	5626	28-out-05	14,7	60,0	46,0	1015,0	73,7
5417	28-out-05	8,0	69,0	50,0	976,0	69,5	5522	28-out-05	8,1	75,5	46,0	929,0	69,6	5627	28-out-05	15,2	58,1	46,0	964,0	73,7
5418	28-out-05	7,0	77,4	50,0	966,0	69,5	5523	28-out-05	8,6	75,6	46,0	967,0	69,6	5628	28-out-05	15,4	66,2	46,0	1004,0	73,7
5419	28-out-05	8,8	67,3	50,0	952,0	69,4	5524	28-out-05	9,1	77,2	46,0	980,0	69,6	5629	28-out-05	14,1	63,5	46,0	915,0	73,7
5420	28-out-05	7,0	68,8	50,0	944,0	69,5	5525	28-out-05	10,9	69,1	46,0	915,0	69,6	5630	28-out-05	14,0	62,3	46,0	1012,0	73,7
5421	28-out-05	7,0	71,2	50,0	915,0	69,5	5526	28-out-05	10,4	70,6	46,0	924,0	69,6	5631	28-out-05	14,2	63,9	46,0	993,0	73,7
5422	28-out-05	6,4	56,3	49,0	979,0	69,4	5527	28-out-05	11,3	73,8	46,0	967,0	69,6	5632	28-out-05	12,6	65,2	46,0	958,0	73,7
5423	28-out-05	6,0	63,7	49,0	993,0	69,4	5528	28-out-05	10,0	77,6	46,0	996,0	69,6	5633	28-out-05	14,1	64,5	46,0	973,0	73,7
5424	28-out-05	6,2	69,8	49,0	1000,0	69,5	5529	28-out-05	16,5	78,9	46,0	961,0	69,6	5634	28-out-05	12,7	64,3	46,0	1002,0	73,7
5425	28-out-05	5,6	62,7	49,0	937,0	69,4	5530	28-out-05	15,5	73,2	46,0	994,0	69,6	5635	28-out-05	13,8	56,1	46,0	949,0	73,7
5426	28-out-05	5,0	64,6	49,0	979,0	69,4	5531	28-out-05	13,1	71,7	46,0	979,0	69,5	5636	28-out-05	13,3	67,1	46,0	973,0	73,7
5427	28-out-05	5,7	64,5	49,0	977,0	69,4	5532	28-out-05	10,8	73,6	46,0	992,0	69,6	5637	28-out-05	11,8	65,2	46,0	1007,0	73,7
5428	28-out-05	6,1	64,9	48,0	992,0	69,5	5533	28-out-05	17,5	80,4	46,0	984,0	69,6	5638	28-out-05	13,0	63,3	46,0	1013,0	73,7
5429	28-out-05	6,1	65,6	48,0	954,0	69,4	5534	28-out-05	13,8	77,9	46,0	984,0	69,5	5639	28-out-05	13,8	60,7	46,0	932,0	73,7
5430	28-out-05	6,5	66,7	48,0	973,0	69,5	5535	28-out-05	14,6	73,6	46,0	1018,0	69,6	5640	28-out-05	13,0	61,3	46,0	1001,0	73,7
5431	28-out-05	5,2	62,5	48,0	965,0	69,4	5536	28-out-05	13,8	75,8	46,0	1024,0	69,5	5641	28-out-05	12,2	68,1	46,0	992,0	73,7
5432	28-out-05	6,6	64,9	48,0	946,0	69,5	5537	28-out-05	15,7	78,2	46,0	990,0	69,5	5642	28-out-05	15,7	67,0	46,0	1020,0	73,7
5433	28-out-05	6,6	63,4	48,0	987,0	69,4	5538	28-out-05	13,2	79,1	46,0	997,0	69,6	5643	28-out-05	13,8	60,5	46,0	948,0	73,7
5434	28-out-05	6,7	68,1	48,0	964,0	69,5	5539	28-out-05	17,5	75,9	46,0	1000,0	69,5	5644	28-out-05	11,8	56,5	46,0	984,0	73,7
5435	28-out-05	7,9	60,7	48,0	970,0	69,4	5540	28-out-05	13,8	76,2	46,0	1048,0	69,5	5645	28-out-05	13,2	66,7	46,0	1000,0	73,7
5436	28-out-05	5,8	63,6	48,0	992,0	69,5	5541	28-out-05	14,7	76,6	46,0	998,0	69,5	5646	28-out-05	12,4	57,1	46,0	1007,0	73,7
5437	28-out-05	6,0	62,0	48,0	953,0	69,5	5542	28-out-05	22,0	74,1	46,0	937,0	69,5	5647	28-out-05	12,3	57,5	46,0	942,0	73,7
5438	28-out-05	7,4	62,8	48,0	907,0	69,5	5543	28-out-05	17,7	81,3	46,0	909,0	69,6	5648	28-out-05	11,2	65,2	46,0	1008,0	73,7
5439	28-out-05	8,6	66,6	47,0	944,0	69,5	5544	28-out-05	19,4	77,5	46,0	957,0	69,6	5649	28-out-05	12,1	63,1	46,0	971,0	73,7
5440	28-out-05	6,0	63,6	47,0	935,0	69,5	5545	28-out-05	17,7	72,1	46,0	1026,0	69,5	5650	28-out-05	15,1	57,8	46,0	935,0	73,7
5441	28-out-05	5,2	60,0	47,0	978,0	69,4	5546	28-out-05	24,0	79,8	46,0	938,0	69,5	5651	28-out-05	12,6	63,6	46,0	932,0	73,7
5442	28-out-05	6,5	64,8	47,0	963,0	69,5	5547	28-out-05	13,0	75,6	46,0	958,0	69,5	5652	28-out-05	11,4	57,4	46,0	992,0	73,7
5443	28-out-05	5,7	61,2	47,0	955,0	69,4	5548	28-out-05	17,3	73,0	46,0	924,0	69,5	5653	28-out-05	12,1	60,8	46,0	941,0	73,7
5444	28-out-05	4,8	62,8	47,0	955,0	69,4	5549	28-out-05	15,0	72,2	46,0	1010,0	66,3	5654	28-out-05	13,1	65,7	46,0	930,0	73,7
5445	28-out-05	5,2	59,1	47,0	978,0	69,4	5550	28-out-05	22,7	77,5	46,0	1008,0	73,7	5655	28-out-05	15,0	66,8	46,0	985,0	73,7
5446	28-out-05	5,6	62,3	47,0	948,0	69,5	5551	28-out-05	15,0	75,0	46,0	881,0	73,8	5656	28-out-05	12,2	61,4	46,0	908,0	73,7
5447	28-out-05	4,8	59,7	47,0	977,0	69,4	5552	28-out-05	16,6	77,7	46,0	1017,0	73,3	5657	28-out-05	12,6	58,9	46,0	939,0	73,7
5448	28-out-05	5,8	62,0	47,0	927,0	69,4	5553	28-out-05	16,3	76,2	46,0	1023,0	73,3	5658	28-out-05	12,7	60,3	46,0	924,0	73,7
5449	28-out-05	5,3	60,3	47,0	930,0	69,4	5554	28-out-05	22,7	75,2	46,0	945,0	73,3	5659	28-out-05	13,6	60,4	46,0	1004,0	73,7
5450	28-out-05	4,7	61,4	47,0	946,0	69,4	5555	28-out-05	16,9	74,4	46,0	997,0	73,3	5660	28-out-05	13,2	62,0	46,0	984,0	73,7
5451	28-out-05	5,6	62,1	47,0	934,0	69,4	5556	28-out-05	17,7	74,6	46,0	999,0	73,3	5661	28-out-05	11,8	60,5	46,0	1044,0	73,7
5452	28-out-05	4,7	64,6	47,0	915,0	69,4	5557	28-out-05	18,7	67,9	46,0	984,0	73,3	5662	28-out-05	13,7	60,3	46,0	957,0	73,7
5453	28-out-05	5,3	58,3	47,0	983,0	69,4	5558	28-out-05	15,9	69,7	46,0	1024,0	73,3	5663	28-out-05	11,0	64,5	46,0	954,0	73,7
5454	28-out-05	5,5	60,7	47,0	918,0	69,4	5559	28-out-05	14,6	70,6	46,0	1005,0	73,3	5664	28-out-05	11,2	66,1	46,0	987,0	73,7
5665	28-out-05	11,0	65,0	46,0	931,0	73,7	5770	28-out-05	15,7	68,5	46,0	1002,0	73,7	5875	28-out-05	6,2	61,6	47,0	980,0	73,7
5666	28-out-05	10,2	57,4	46,0	891,0	73,7	5771	28-out-05	12,8	69,3	46,0	941,0	73,7	5876	28-out-05	7,1	62,8	47,0	987,0	73,7
5667	28-out-05	9,7	63,1	46,0	1019,0	73,7	5772	28-out-05	12,7	63,2	47,0	977,0	73,7	5877	28-out-05	6,5	69,1	47,0	991,0	73,7
5668	28-out-05	10,8	60,6	46,0	1029,0	73,7	5773	28-out-05	14,7	64,4	47,0	920,0	73,7	5878	28-out-05	5,3	72,5	47,0	921,0	73,7
5669	28-out-05	13,0	52,7	46,0	900,0	73,7	5774	28-out-05	19,2	65,1	47,0	1023,0	73,7	5879	28-out-05	5,8	63,5	47,0	951,0	73,7
5670	28-out-05	11,6	61,3	46,0	954,0	73,7	5775	28-out-05	17,0	58,0	46,0	978,0	73,7	5880	28-out-05	5,1	65,1	47,0	994,0	73,7
5671	28-out-05	11,4	65,5	46,0	936,0	73,7	5776	28-out-05	17,0	59,7	46,0	986,0	73,7	5881	28-out-05	5,6	58,2	47,0	959,0	73,7
5672	28-out-05	11,6	61,4	46,0	900,0	73,7	5777	28-out-05	14,7	64,3	47,0	921,0	73,7	5882	28-out-05	3,8	57,6	47,0	943,0	73,7
5673	28-out-05	11,6	59,7	46,0	953,0	73,7	5778	28-out-05	14,6	62,1	47,0	955,0	73,7	5883	28-out-05	3,9	55,0	47,0	1006,0	73,7
5674	28-out-05	12,4	66,3	46,0	1007,0	73,7	5779	28-out-05	15,9	68,5	47,0	1006,0	73,7	5884	28-out-05	5,8	56,5	47,0	938,0	73,7
5675	28-out-05	11,2	60,6	46,0	1012,0	73,7	5780	28-out-05	14,1	73,0	46,0	1001,0	73,7	5885	28-out-05	6,5	61,9	47,0	935,0	73,7
5676	28-out-05	10,5	60,4	46,0	964,0	73,7	5781	28-out-05	14,6	73,3	46,0	948,0	73,7	5886	28-out-05	6,6	62,8	47,0	980,0	73,7
5677	28-out-05	12,4	58,3	46,0	959,0	73,7	5782	28-out-05	14,5	68,6	47,0	1002,0	73,7	5887	28-out-05	3,8	63,2	47,0	931,0	73,7
5678	28-out-05	11,2	57,3	46,0	1005,0	73,7	5783	28-out-05	12,6	66,7	47,0	971,0	73,7	5888	28-out-05	5,7	68,5	47,0	930,0	73,7
5679	28-out-05	13,1	57,6	46,0	975,0	73,7	5784	28-out-05	15,2	63,3	46,0	952,0	73,7	5889	28-out-05	5,7	66,9	47,0	942,0	73,7
5680	28-out-05	11,2	55,8	46,0	949,0	73,7	5785	28-out-05	16,5	64,2	46,0	904,0	73,7	5890	28-out-05	6,4	64,8	47,0	927,0	73,7
5681	28-out-05	13,3	64,3	46,0	1013,0	73,7	5786	28-out-05	12,3	63,7	46,0	953,0	73,7	5891	28-out-05	5,8	61,2			

5692	28-out-05	17,9	60,9	46,0	1001,0	73,7	5797	28-out-05	13,1	61,5	46,0	938,0	73,7	5902	28-out-05	5,2	64,4	47,0	924,0	73,7
5693	28-out-05	15,9	62,9	46,0	984,0	73,7	5798	28-out-05	14,2	67,0	46,0	984,0	73,7	5903	28-out-05	5,0	58,1	47,0	981,0	73,7
5694	28-out-05	18,8	62,4	46,0	971,0	73,7	5799	28-out-05	14,6	70,6	46,0	1012,0	73,7	5904	28-out-05	4,7	57,3	47,0	971,0	73,7
5695	28-out-05	15,0	62,4	46,0	967,0	73,7	5800	28-out-05	15,0	70,6	46,0	988,0	73,7	5905	28-out-05	4,4	59,5	47,0	986,0	73,7
5696	28-out-05	15,5	61,3	46,0	1007,0	73,7	5801	28-out-05	20,2	76,0	46,0	968,0	73,7	5906	28-out-05	4,4	63,1	47,0	895,0	73,7
5697	28-out-05	16,0	60,3	46,0	936,0	73,7	5802	28-out-05	14,0	80,5	47,0	1003,0	73,7	5907	28-out-05	4,8	67,3	47,0	924,0	73,7
5698	28-out-05	14,5	63,0	46,0	987,0	73,7	5803	28-out-05	15,0	65,0	46,0	954,0	73,7	5908	28-out-05	4,2	66,1	46,0	930,0	73,7
5699	28-out-05	16,3	62,2	46,0	931,0	73,7	5804	28-out-05	13,1	69,7	47,0	989,0	73,7	5909	28-out-05	4,4	69,9	47,0	922,0	73,7
5700	28-out-05	12,8	60,4	46,0	926,0	73,7	5805	28-out-05	14,0	65,9	46,0	914,0	73,7	5910	28-out-05	4,8	68,1	47,0	938,0	73,7
5701	28-out-05	20,3	61,8	46,0	1023,0	73,7	5806	28-out-05	14,0	65,1	46,0	936,0	73,7	5911	28-out-05	4,4	67,4	47,0	930,0	73,7
5702	28-out-05	18,9	56,0	46,0	1019,0	73,7	5807	28-out-05	14,4	67,2	46,0	991,0	73,7	5912	28-out-05	5,2	66,2	47,0	948,0	73,7
5703	28-out-05	15,7	56,8	46,0	894,0	73,7	5808	28-out-05	13,2	62,2	46,0	966,0	73,7	5913	28-out-05	5,2	60,9	47,0	962,0	73,7
5704	28-out-05	17,0	59,4	46,0	976,0	73,7	5809	28-out-05	16,0	77,5	46,0	1007,0	73,7	5914	28-out-05	5,2	59,2	47,0	985,0	73,7
5705	28-out-05	16,0	61,4	46,0	976,0	73,7	5810	28-out-05	14,4	69,4	46,0	946,0	73,7	5915	28-out-05	4,7	58,3	47,0	991,0	73,7
5706	28-out-05	14,5	60,4	46,0	993,0	73,7	5811	28-out-05	14,7	72,9	46,0	978,0	73,7	5916	28-out-05	6,0	57,7	47,0	985,0	73,7
5707	28-out-05	16,0	62,0	46,0	923,0	73,7	5812	28-out-05	19,2	73,7	46,0	984,0	73,7	5917	28-out-05	5,3	62,7	47,0	994,0	73,7
5708	28-out-05	14,1	59,5	46,0	892,0	73,7	5813	28-out-05	16,0	73,3	46,0	925,0	73,7	5918	28-out-05	5,2	67,8	47,0	987,0	73,7
5709	28-out-05	17,0	60,2	46,0	975,0	73,7	5814	28-out-05	17,7	75,0	46,0	976,0	73,7	5919	28-out-05	4,6	70,9	47,0	957,0	73,7
5710	28-out-05	18,2	60,8	46,0	936,0	73,7	5815	28-out-05	13,3	69,5	46,0	965,0	73,7	5920	28-out-05	5,2	63,5	47,0	915,0	73,7
5711	28-out-05	17,7	62,1	46,0	979,0	73,7	5816	28-out-05	17,3	63,8	46,0	1008,0	73,7	5921	28-out-05	4,8	67,9	47,0	975,0	73,7
5712	28-out-05	17,3	58,0	46,0	1002,0	73,7	5817	28-out-05	14,7	60,9	46,0	944,0	73,7	5922	28-out-05	5,2	67,5	47,0	951,0	73,7
5713	28-out-05	20,8	57,9	46,0	976,0	73,7	5818	28-out-05	12,7	63,3	46,0	895,0	73,7	5923	28-out-05	5,3	63,8	47,0	934,0	73,7
5714	28-out-05	19,1	62,9	46,0	1015,0	73,7	5819	28-out-05	15,2	64,6	46,0	891,0	73,7	5924	28-out-05	5,6	54,8	47,0	921,0	73,7
5715	28-out-05	18,3	57,3	47,0	970,0	73,7	5820	28-out-05	17,9	64,0	46,0	969,0	73,7	5925	28-out-05	5,2	54,4	47,0	991,0	73,7
5716	28-out-05	18,8	60,1	47,0	1028,0	73,7	5821	28-out-05	19,9	70,4	46,0	904,0	72,7	5926	28-out-05	5,0	60,0	47,0	1015,0	73,7
5717	28-out-05	17,5	63,6	47,0	988,0	73,7	5822	28-out-05	15,6	72,8	46,0	869,0	72,7	5927	28-out-05	5,2	59,7	47,0	938,0	73,7
5718	28-out-05	20,1	62,7	47,0	976,0	73,7	5823	28-out-05	17,1	76,4	46,0	970,0	72,7	5928	28-out-05	5,0	66,5	47,0	931,0	73,7
5719	28-out-05	16,1	62,4	47,0	1019,0	73,7	5824	28-out-05	14,7	67,8	46,0	1009,0	72,7	5929	28-out-05	5,3	65,8	47,0	1015,0	73,7
5720	28-out-05	18,2	60,5	47,0	1013,0	73,7	5825	28-out-05	13,6	70,3	46,0	957,0	72,7	5930	28-out-05	5,0	71,5	47,0	991,0	73,7
5721	28-out-05	17,5	64,1	47,0	984,0	73,7	5826	28-out-05	14,6	72,7	46,0	967,0	73,7	5931	28-out-05	5,0	67,2	47,0	957,0	73,7
5722	28-out-05	18,7	54,6	47,0	914,0	73,7	5827	28-out-05	14,1	69,1	46,0	969,0	73,7	5932	28-out-05	6,0	73,5	47,0	982,0	73,7
5723	28-out-05	15,7	56,4	47,0	919,0	73,7	5828	28-out-05	14,4	64,7	46,0	947,0	73,7	5933	28-out-05	5,1	66,2	47,0	998,0	73,7
5724	28-out-05	20,1	59,0	47,0	936,0	73,7	5829	28-out-05	14,4	65,7	46,0	998,0	73,7	5934	28-out-05	5,8	62,7	47,0	920,0	73,7
5725	28-out-05	25,4	61,9	47,0	934,0	73,7	5830	28-out-05	12,4	61,9	46,0	1013,0	73,7	5935	28-out-05	6,2	56,3	47,0	995,0	73,7
5726	28-out-05	21,5	61,0	47,0	993,0	73,7	5831	28-out-05	13,6	62,4	46,0	880,0	73,7	5936	28-out-05	6,1	55,4	47,0	957,0	73,7
5727	28-out-05	19,9	63,8	47,0	960,0	73,7	5832	28-out-05	12,4	65,7	46,0	996,0	73,7	5937	28-out-05	7,4	55,8	47,0	984,0	73,7
5728	28-out-05	18,9	64,7	47,0	1004,0	73,7	5833	28-out-05	14,7	75,1	46,0	956,0	73,7	5938	28-out-05	8,0	57,1	47,0	971,0	73,7
5729	28-out-05	23,9	61,1	47,0	900,0	73,7	5834	28-out-05	13,3	71,4	46,0	944,0	73,7	5939	28-out-05	7,1	63,1	47,0	957,0	73,7
5730	28-out-05	17,3	57,6	47,0	963,0	73,7	5835	28-out-05	14,5	69,6	46,0	950,0	73,7	5940	28-out-05	5,8	69,8	47,0	940,0	73,7
5731	28-out-05	19,7	60,0	47,0	960,0	73,7	5836	28-out-05	14,9	72,2	46,0	1012,0	73,7	5941	28-out-05	5,7	67,2	47,0	991,0	73,7
5732	28-out-05	20,4	59,3	47,0	1017,0	73,7	5837	28-out-05	13,8	72,8	46,0	921,0	73,7	5942	28-out-05	6,7	61,7	46,0	970,0	73,7
5733	28-out-05	23,0	60,8	46,0	1004,0	73,7	5838	28-out-05	13,3	67,3	46,0	977,0	73,7	5943	28-out-05	6,4	65,9	46,0	918,0	73,7
5734	28-out-05	20,3	58,9	47,0	930,0	73,7	5839	28-out-05	12,2	65,2	46,0	1031,0	73,7	5944	28-out-05	6,4	65,6	47,0	1011,0	73,7
5735	28-out-05	21,3	61,9	47,0	1007,0	73,7	5840	28-out-05	13,0	60,0	47,0	987,0	73,7	5945	28-out-05	6,5	53,6	47,0	975,0	73,7
5736	28-out-05	20,8	61,4	47,0	1002,0	73,7	5841	28-out-05	11,0	60,8	46,0	928,0	73,7	5946	28-out-05	6,7	56,5	46,0	913,0	73,7
5737	28-out-05	18,9	62,8	47,0	1007,0	73,7	5842	28-out-05	13,3	65,5	46,0	987,0	73,7	5947	28-out-05	6,2	58,7	46,0	1000,0	73,7
5738	28-out-05	22,6	66,1	47,0	1002,0	73,7	5843	28-out-05	12,1	64,2	47,0	934,0	73,7	5948	28-out-05	6,4	58,1	47,0	911,0	73,7
5739	28-out-05	15,5	62,3	47,0	996,0	73,7	5844	28-out-05	11,6	66,2	46,0	998,0	73,7	5949	28-out-05	7,4	61,8	47,0	924,0	73,7
5740	28-out-05	17,4	63,2	47,0	1005,0	73,7	5845	28-out-05	16,0	67,2	47,0	948,0	73,7	5950	28-out-05	6,2	71,5	47,0	939,0	73,7
5741	28-out-05	19,6	60,4	46,0	956,0	73,7	5846	28-out-05	13,2	71,1	46,0	1002,0	73,7	5951	28-out-05	7,2	60,0	46,0	968,0	73,7
5742	28-out-05	18,8	54,6	47,0	1033,0	73,7	5847	28-out-05	14,4	72,9	46,0	964,0	73,7	5952	28-out-05	5,6	65,2	46,0	943,0	73,7
5743	28-out-05	18,5	56,3	47,0	997,0	73,7	5848	28-out-05	14,6	68,2	46,0	999,0	73,7	5953	28-out-05	6,6	74,1	46,0	935,0	73,7
5744	28-out-05	21,2	58,2	47,0	923,0	73,7	5849	28-out-05	14,2	68,1	46,0	968,0	73,7	5954	28-out-05	6,6	65,3	47,0	951,0	73,7
5745	28-out-05	18,4	58,0	47,0	929,0	73,7	5850	28-out-05	11,7	64,5	46,0	996,0	73,7	5955	28-out-05	6,6	56,8	46,0	951,0	73,7
5746	28-out-05	19,8	61,3	47,0	992,0	73,7	5851	28-out-05	9,5	60,3	46,0	972,0	73,7	5956	28-out-05	6,6	57,6	46,0	918,0	73,7
5747	28-out-05	18,0	62,3	47,0	953,0	73,7	5852	28-out-05	10,3	61,0	47,0	954,0	73,7	5957	28-out-05	6,2	61,4	46,0	953,0	73,7
5748	28-out-05	17,0	63,3	47,0	992,0	73,7	5853	28-out-05	12,6	68,4	46,0	984,0	73,7	5958	28-out-05	6,1	55,4	47,0	961,0	73,7
5749	28-out-05	17,5	67,3	47,0	933,0	73,7	5854	28-out-05	11,8	67,5	46,0	972,0	73,7	5959	28-out-05	7,7	59,2	47,0	917,0	73,7
5750	28-out-05	15,6	65,4	47,0	948,0	73,7	5855	28-out-05	15,2	72,8	46,0	908,0	73,7	5960	28-out-05	9,0	63,6	46,0	922,0	73,7
5751	28-out-05	17,7	63,1	47,0	936,0	73,7	5856	28-out-05	17,3	74,4	46,0	990,0	73,7	5961	28-out-05	6,6	66,8	47,0	973,0	73,7
5752	28-out-05	17,1	67,7	47,0	965,0	73,7	5857	28-out-05	9,9	60,0	46,0	922,0	73,7	5962	28-out-05	6,7	66,8	4		

5763	28-out-05	17,0	66,7	46,0	992,0	73,7	5868	28-out-05	7,0	67,1	47,0	922,0	73,7	5973	28-out-05	6,7	62,7	47,0	919,0	73,7
5764	28-out-05	15,2	60,2	46,0	969,0	73,7	5869	28-out-05	7,4	72,7	47,0	963,0	73,7	5974	28-out-05	7,1	64,4	47,0	963,0	73,7
5765	28-out-05	14,1	57,3	47,0	936,0	73,7	5870	28-out-05	6,1	63,3	47,0	971,0	73,7	5975	28-out-05	7,5	58,2	46,0	951,0	73,7
5766	28-out-05	14,6	59,5	46,0	977,0	73,7	5871	28-out-05	6,4	59,0	47,0	927,0	73,7	5976	28-out-05	7,0	55,9	46,0	962,0	73,7
5767	28-out-05	15,0	66,9	46,0	1003,0	73,7	5872	28-out-05	6,6	63,1	47,0	938,0	73,7	5977	28-out-05	6,6	56,6	46,0	993,0	73,7
5768	28-out-05	14,5	64,9	46,0	992,0	73,7	5873	28-out-05	6,0	63,3	47,0	970,0	73,7	5978	28-out-05	8,1	56,4	46,0	974,0	73,7
5769	28-out-05	20,1	67,5	46,0	924,0	73,7	5874	28-out-05	6,6	62,5	47,0	1001,0	73,7	5979	28-out-05	11,4	56,8	46,0	973,0	73,7
5980	28-out-05	7,5	61,2	46,0	955,0	73,7	6085	28-out-05	4,7	40,5	47,0	345,0	84,0	6190	28-out-05	3,9	40,7	47,0	348,0	79,7
5981	28-out-05	8,4	63,8	46,0	973,0	73,7	6086	28-out-05	4,8	41,0	47,0	349,0	84,0	6191	28-out-05	3,4	41,2	47,0	347,0	79,7
5982	28-out-05	6,5	64,3	47,0	968,0	73,7	6087	28-out-05	4,1	41,1	47,0	345,0	84,0	6192	28-out-05	3,9	40,9	47,0	343,0	79,7
5983	28-out-05	8,8	69,0	46,0	976,0	73,7	6088	28-out-05	2,9	40,9	47,0	327,0	84,0	6193	28-out-05	3,2	40,8	47,0	333,0	79,7
5984	28-out-05	8,4	71,4	47,0	967,0	73,7	6089	28-out-05	3,2	41,1	47,0	344,0	84,0	6194	28-out-05	3,2	41,4	47,0	344,0	79,7
5985	28-out-05	7,7	69,7	46,0	914,0	73,7	6090	28-out-05	3,7	40,3	47,0	328,0	84,0	6195	28-out-05	3,4	41,5	47,0	346,0	79,7
5986	28-out-05	6,9	64,5	46,0	994,0	73,7	6091	28-out-05	4,1	41,2	47,0	353,0	84,0	6196	28-out-05	3,2	41,5	47,0	353,0	79,7
5987	28-out-05	6,7	69,2	46,0	917,0	73,7	6092	28-out-05	3,3	41,0	47,0	329,0	84,0	6197	28-out-05	3,0	40,8	47,0	346,0	79,7
5988	28-out-05	6,4	63,8	46,0	940,0	73,7	6093	28-out-05	3,2	40,3	47,0	330,0	84,0	6198	28-out-05	2,9	40,7	47,0	349,0	79,7
5989	28-out-05	6,7	59,4	47,0	913,0	73,7	6094	28-out-05	2,7	40,6	47,0	330,0	84,1	6199	28-out-05	3,0	41,2	47,0	350,0	79,7
5990	28-out-05	6,7	63,7	47,0	995,0	73,7	6095	28-out-05	4,3	41,2	47,0	347,0	84,1	6200	28-out-05	2,8	41,5	47,0	351,0	79,7
5991	28-out-05	6,6	70,3	46,0	931,0	73,7	6096	28-out-05	5,7	40,8	47,0	347,0	84,0	6201	28-out-05	2,8	41,1	47,0	348,0	79,7
5992	28-out-05	6,9	64,4	47,0	915,0	73,7	6097	28-out-05	4,7	41,4	47,0	352,0	84,1	6202	28-out-05	2,8	41,2	47,0	353,0	80,2
5993	28-out-05	6,5	67,9	47,0	924,0	73,7	6098	28-out-05	5,5	40,9	47,0	345,0	84,0	6203	28-out-05	3,8	41,1	47,0	348,0	82,7
5994	28-out-05	6,4	59,6	46,0	949,0	73,7	6099	28-out-05	5,0	41,6	47,0	341,0	84,1	6204	28-out-05	3,4	41,5	47,0	346,0	82,7
5995	28-out-05	6,9	74,9	47,0	1008,0	73,7	6100	28-out-05	5,2	41,1	47,0	330,0	84,0	6205	28-out-05	3,8	41,2	47,0	351,0	82,8
5996	28-out-05	6,4	70,6	47,0	888,0	73,7	6101	28-out-05	4,6	41,2	47,0	354,0	79,8	6206	28-out-05	5,3	42,2	47,0	366,0	82,9
5997	28-out-05	6,6	69,2	46,0	967,0	73,7	6102	28-out-05	3,4	40,9	47,0	343,0	79,7	6207	28-out-05	5,5	41,8	47,0	376,0	82,9
5998	28-out-05	6,9	62,4	46,0	973,0	73,7	6103	28-out-05	3,7	40,4	47,0	340,0	79,7	6208	28-out-05	5,0	42,9	47,0	361,0	82,9
5999	28-out-05	6,5	60,0	46,0	994,0	73,7	6104	28-out-05	4,8	40,8	47,0	344,0	79,7	6209	28-out-05	8,4	41,8	47,0	960,0	100,9
6000	28-out-05	6,7	57,4	46,0	895,0	73,7	6105	28-out-05	4,4	41,0	47,0	347,0	79,7	6210	28-out-05	5,8	42,6	47,0	375,0	82,9
6001	28-out-05	5,8	54,8	46,0	900,0	73,7	6106	28-out-05	4,8	41,1	47,0	343,0	79,7	6211	28-out-05	7,1	41,7	47,0	385,0	82,9
6002	28-out-05	6,6	66,2	47,0	856,0	73,7	6107	28-out-05	5,0	41,4	47,0	339,0	79,7	6212	28-out-05	5,6	41,4	47,0	370,0	82,9
6003	28-out-05	7,7	78,5	47,0	980,0	73,7	6108	28-out-05	4,7	40,9	47,0	345,0	79,7	6213	28-out-05	3,8	42,3	47,0	355,0	82,9
6004	28-out-05	6,7	71,3	46,0	908,0	73,7	6109	28-out-05	4,8	41,0	47,0	348,0	79,7	6214	28-out-05	6,2	41,9	47,0	368,0	82,9
6005	28-out-05	6,6	67,9	46,0	868,0	73,7	6110	28-out-05	6,5	41,2	47,0	349,0	79,6	6215	28-out-05	4,4	41,7	47,0	332,0	82,9
6006	28-out-05	6,9	85,4	46,0	913,0	73,7	6111	28-out-05	5,3	41,1	47,0	351,0	79,7	6216	28-out-05	6,4	41,9	47,0	346,0	82,9
6007	28-out-05	6,0	79,2	46,0	887,0	73,7	6112	28-out-05	4,1	40,4	47,0	356,0	79,7	6217	28-out-05	6,7	41,7	47,0	332,0	82,8
6008	28-out-05	5,1	66,5	46,0	915,0	73,7	6113	28-out-05	6,2	41,0	47,0	351,0	79,7	6218	28-out-05	2,4	39,0	46,0	593,0	71,7
6009	28-out-05	5,1	59,9	46,0	903,0	73,7	6114	28-out-05	4,8	41,1	47,0	359,0	79,7	6219	28-out-05	3,8	39,6	46,0	319,0	71,7
6010	28-out-05	5,3	54,9	46,0	802,0	73,7	6115	28-out-05	4,8	40,4	47,0	346,0	79,7	6220	28-out-05	2,0	39,5	46,0	321,0	71,7
6011	28-out-05	5,2	58,1	47,0	836,0	73,7	6116	28-out-05	3,6	40,4	47,0	343,0	79,7	6221	28-out-05	1,9	40,0	46,0	324,0	71,7
6012	28-out-05	7,5	56,9	46,0	713,0	73,7	6117	28-out-05	6,2	40,7	47,0	330,0	79,7	6222	28-out-05	1,8	39,8	47,0	328,0	71,7
6013	28-out-05	5,6	55,5	46,0	783,0	73,7	6118	28-out-05	3,8	41,3	47,0	352,0	79,7	6223	28-out-05	2,0	41,7	47,0	349,0	73,0
6014	28-out-05	5,1	64,2	46,0	758,0	73,7	6119	28-out-05	5,1	41,4	47,0	349,0	79,7	6224	28-out-05	2,8	40,2	47,0	347,0	79,7
6015	28-out-05	5,1	73,4	46,0	840,0	73,7	6120	28-out-05	3,4	40,6	47,0	330,0	79,7	6225	28-out-05	3,4	41,0	47,0	341,0	68,7
6016	28-out-05	5,2	71,8	46,0	821,0	73,7	6121	28-out-05	4,7	40,7	47,0	332,0	79,7	6226	28-out-05	3,0	42,9	47,0	329,0	75,8
6017	28-out-05	5,6	69,0	46,0	826,0	73,7	6122	28-out-05	3,6	41,5	47,0	334,0	79,7	6227	28-out-05	4,4	41,0	47,0	349,0	75,6
6018	28-out-05	5,8	67,1	47,0	782,0	73,7	6123	28-out-05	3,7	40,8	47,0	347,0	79,7	6228	28-out-05	4,2	41,7	47,0	346,0	80,8
6019	28-out-05	5,5	67,0	46,0	767,0	73,7	6124	28-out-05	6,1	41,6	47,0	344,0	79,7	6229	28-out-05	4,6	42,2	47,0	365,0	82,8
6020	28-out-05	5,6	67,1	46,0	831,0	73,7	6125	28-out-05	6,5	41,0	47,0	337,0	79,7	6230	28-out-05	4,7	43,6	47,0	378,0	82,8
6021	28-out-05	5,3	64,4	46,0	771,0	73,7	6126	28-out-05	5,0	41,0	47,0	349,0	79,7	6231	28-out-05	4,6	41,9	47,0	374,0	82,8
6022	28-out-05	5,3	68,5	47,0	783,0	73,7	6127	28-out-05	5,7	41,1	47,0	331,0	79,7	6232	28-out-05	6,0	42,4	47,0	379,0	82,8
6023	28-out-05	5,7	72,5	46,0	783,0	73,7	6128	28-out-05	5,5	40,9	47,0	350,0	79,7	6233	28-out-05	6,2	42,7	47,0	378,0	82,8
6024	28-out-05	5,7	72,1	46,0	761,0	73,7	6129	28-out-05	5,6	41,4	47,0	343,0	79,7	6234	28-out-05	9,9	42,8	47,0	391,0	82,8
6025	28-out-05	5,7	80,3	47,0	781,0	73,7	6130	28-out-05	6,0	40,9	47,0	342,0	79,7	6235	28-out-05	8,0	43,0	47,0	391,0	82,8
6026	28-out-05	5,6	78,4	46,0	810,0	73,7	6131	28-out-05	4,7	41,5	47,0	346,0	79,7	6236	28-out-05	5,5	42,7	47,0	392,0	82,8
6027	28-out-05	6,1	76,4	47,0	831,0	73,7	6132	28-out-05	5,7	41,8	47,0	353,0	79,7	6237	28-out-05	4,8	45,5	47,0	419,0	82,9
6028	28-out-05	6,2	74,6	47,0	852,0	73,7	6133	28-out-05	4,6	40,8	47,0	359,0	79,7	6238	28-out-05	4,8	45,5	47,0	407,0	81,4
6029	28-out-05	6,0	73,1	47,0	930,0	73,7	6134	28-out-05	5,3	41,2	47,0	346,0	79,7	6239	28-out-05	5,2	44,4	47,0	403,0	81,4
6030	28-out-05	6,1	55,1	47,0	904,0	73,7	6135	28-out-05	5,5	41,0	47,0	348,0	79,7	6240	28-out-05	5,8	42,8	47,0	403,0	82,8
6031	28-out-05	5,7	55,3	47,0	813,0	73,7	6136	28-out-05	4,3	41,1	47,0	357,0	79,7	6241	28-out-05	5,1	43,2	47,0	391,0	82,9
6032	28-out-05	5,1	62,9	47,0	923,0	73,7	6137	28-out-05	5,7	41,7	47,0	372,0	79,7	6242	28-out-05	5,1	43,2	47,0	396,0	82,9
6033	28-out-05	4,6	60,5	47,0	955,0	73,7	6138	28-out-05	6,5	41,2	46,0	377,0	79,7	6243	28-out-05	6,5	43,7	47,0	394,0	82,9
6034	28-out-05	5,0	59,3	47,0	907,0	73,7	6139	28-out-05	4,7	41,5	46,0</									

6044	28-out-05	6,5	60,7	47,0	991,0	73,7	6149	28-out-05	7,2	43,8	47,0	357,0	79,7	6254	28-out-05	5,1	42,2	47,0	393,0	82,8
6045	28-out-05	6,5	62,6	47,0	912,0	73,7	6150	28-out-05	5,0	42,5	47,0	369,0	79,7	6255	28-out-05	8,4	42,2	47,0	391,0	82,8
6046	28-out-05	6,1	65,6	46,0	860,0	73,7	6151	28-out-05	4,7	42,1	47,0	379,0	79,7	6256	28-out-05	7,0	43,6	47,0	374,0	82,8
6047	28-out-05	6,7	80,0	46,0	918,0	73,7	6152	28-out-05	4,1	41,8	47,0	367,0	79,7	6257	28-out-05	4,8	42,4	47,0	330,0	82,8
6048	28-out-05	6,4	77,5	46,0	929,0	73,7	6153	28-out-05	4,3	41,9	47,0	349,0	79,7	6258	28-out-05	8,4	41,6	47,0	354,0	82,8
6049	28-out-05	6,2	69,2	47,0	913,0	73,7	6154	28-out-05	4,3	42,1	47,0	367,0	79,8	6259	28-out-05	8,4	41,6	47,0	354,0	82,8
6050	28-out-05	3,4	39,0	47,0	983,0	95,0	6155	28-out-05	4,6	41,7	47,0	343,0	79,7	6260	28-out-05	7,7	42,1	47,0	357,0	82,8
6051	28-out-05	2,0	38,9	47,0	1006,0	77,7	6156	28-out-05	4,1	41,3	47,0	335,0	79,7	6261	28-out-05	5,2	42,4	47,0	353,0	82,8
6052	28-out-05	1,8	39,5	46,0	1006,0	77,1	6157	28-out-05	4,1	41,3	47,0	333,0	79,7	6262	28-out-05	8,3	43,1	47,0	376,0	82,8
6053	28-out-05	1,7	39,4	47,0	1006,0	77,7	6158	28-out-05	3,3	41,0	47,0	335,0	79,7	6263	28-out-05	6,4	43,2	47,0	364,0	82,8
6054	28-out-05	1,9	38,6	47,0	1006,0	77,8	6159	28-out-05	3,6	41,6	47,0	334,0	79,7	6264	28-out-05	5,8	43,6	47,0	368,0	82,9
6055	28-out-05	1,8	38,8	47,0	1006,0	77,8	6160	28-out-05	4,1	41,0	47,0	337,0	79,7	6265	28-out-05	5,8	41,9	47,0	368,0	82,8
6056	28-out-05	2,0	40,1	47,0	1006,0	77,8	6161	28-out-05	4,1	40,6	47,0	330,0	79,7	6266	28-out-05	4,7	42,5	47,0	368,0	82,8
6057	28-out-05	1,5	39,9	47,0	1006,0	77,0	6162	28-out-05	3,3	40,7	47,0	334,0	79,7	6267	28-out-05	4,4	41,9	47,0	330,0	82,9
6058	28-out-05	2,3	41,5	47,0	353,0	78,2	6163	28-out-05	4,2	40,6	47,0	330,0	79,7	6268	28-out-05	5,5	42,8	47,0	346,0	82,9
6059	28-out-05	3,2	40,0	47,0	354,0	72,1	6164	28-out-05	3,6	41,1	47,0	327,0	79,7	6269	28-out-05	5,0	41,9	47,0	348,0	82,9
6060	28-out-05	3,4	40,5	47,0	368,0	73,7	6165	28-out-05	3,8	40,6	47,0	325,0	79,7	6270	28-out-05	4,3	42,6	47,0	341,0	82,9
6061	28-out-05	4,7	40,4	47,0	346,0	77,8	6166	28-out-05	2,8	41,0	47,0	328,0	79,7	6271	28-out-05	5,8	42,1	47,0	323,0	82,8
6062	28-out-05	3,9	39,7	47,0	352,0	73,9	6167	28-out-05	3,6	40,8	47,0	330,0	79,7	6272	28-out-05	5,0	41,2	47,0	330,0	82,8
6063	28-out-05	3,6	39,8	47,0	358,0	73,9	6168	28-out-05	2,9	40,4	47,0	313,0	79,7	6273	28-out-05	5,8	42,0	47,0	338,0	82,9
6064	28-out-05	3,6	40,6	47,0	349,0	73,9	6169	28-out-05	2,8	41,2	47,0	328,0	79,7	6274	28-out-05	4,1	41,2	47,0	346,0	82,8
6065	28-out-05	3,7	40,7	47,0	352,0	73,9	6170	28-out-05	4,1	40,8	47,0	323,0	79,7	6275	28-out-05	4,7	42,7	47,0	336,0	82,9
6066	28-out-05	4,3	39,6	47,0	344,0	73,9	6171	28-out-05	3,0	40,6	47,0	332,0	79,7	6276	28-out-05	4,8	41,0	47,0	334,0	82,8
6067	28-out-05	4,3	40,6	47,0	349,0	73,9	6172	28-out-05	4,2	40,9	47,0	328,0	79,7	6277	28-out-05	6,0	41,0	47,0	330,0	82,8
6068	28-out-05	4,7	40,8	47,0	331,0	73,9	6173	28-out-05	4,1	41,8	47,0	331,0	79,7	6278	28-out-05	5,7	41,7	47,0	330,0	82,9
6069	28-out-05	4,2	40,2	47,0	342,0	73,8	6174	28-out-05	3,8	40,8	47,0	326,0	79,7	6279	28-out-05	5,6	41,9	47,0	346,0	79,1
6070	28-out-05	3,7	41,0	47,0	344,0	73,9	6175	28-out-05	3,3	40,7	47,0	343,0	79,7	6280	28-out-05	4,3	41,8	47,0	313,0	79,1
6071	28-out-05	4,6	42,2	47,0	365,0	75,7	6176	28-out-05	4,2	41,3	47,0	334,0	79,7	6281	28-out-05	4,6	42,2	47,0	340,0	77,3
6072	28-out-05	4,1	40,4	47,0	337,0	76,3	6177	28-out-05	3,0	40,7	47,0	332,0	79,7	6282	28-out-05	5,1	41,7	47,0	331,0	77,3
6073	28-out-05	3,9	40,8	47,0	329,0	76,3	6178	28-out-05	3,2	40,8	47,0	333,0	79,7	6283	28-out-05	5,1	42,8	47,0	351,0	77,4
6074	28-out-05	3,3	40,7	47,0	327,0	78,4	6179	28-out-05	3,0	41,2	47,0	351,0	79,7	6284	28-out-05	4,7	43,0	47,0	342,0	77,4
6075	28-out-05	3,8	40,2	47,0	352,0	78,4	6180	28-out-05	3,8	40,9	47,0	351,0	79,7	6285	28-out-05	3,8	42,0	47,0	346,0	77,3
6076	28-out-05	5,3	40,5	47,0	359,0	78,4	6181	28-out-05	3,2	41,0	47,0	345,0	79,7	6286	28-out-05	4,7	43,0	47,0	346,0	74,0
6077	28-out-05	3,6	40,6	47,0	350,0	78,4	6182	28-out-05	3,2	41,5	47,0	347,0	79,7	6287	28-out-05	4,2	41,1	47,0	338,0	74,1
6078	28-out-05	3,9	40,9	47,0	351,0	78,4	6183	28-out-05	3,3	40,7	47,0	347,0	79,7	6288	28-out-05	3,4	41,8	47,0	345,0	74,2
6079	28-out-05	4,1	41,1	47,0	354,0	80,4	6184	28-out-05	2,9	41,2	47,0	325,0	79,7	6289	28-out-05	4,1	43,3	47,0	365,0	74,2
6080	28-out-05	5,7	41,7	47,0	348,0	83,8	6185	28-out-05	3,6	41,0	47,0	333,0	79,7	6290	28-out-05	3,8	41,7	47,0	327,0	74,2
6081	28-out-05	4,4	40,7	47,0	340,0	83,8	6186	28-out-05	3,6	40,8	47,0	336,0	79,7	6291	28-out-05	3,9	41,9	47,0	352,0	73,6
6082	28-out-05	4,7	41,2	47,0	992,0	98,0	6187	28-out-05	3,3	41,2	47,0	369,0	79,7	6292	28-out-05	5,1	43,8	47,0	372,0	73,6
6083	28-out-05	5,6	40,6	47,0	342,0	84,0	6188	28-out-05	3,0	41,7	47,0	368,0	79,7	6293	28-out-05	3,9	42,9	47,0	372,0	74,0
6084	28-out-05	4,3	41,2	47,0	338,0	84,0	6189	28-out-05	3,3	40,8	47,0	369,0	79,7	6294	28-out-05	4,3	41,0	47,0	323,0	73,9
6295	28-out-05	4,1	42,1	47,0	345,0	74,0	6400	28-out-05	2,4	41,6	47,0	329,0	76,7	6505	28-out-05	12,6	43,4	48,0	929,0	58,3
6296	28-out-05	3,9	42,0	47,0	351,0	73,9	6401	28-out-05	2,7	42,1	47,0	347,0	76,7	6506	28-out-05	11,4	48,8	48,0	988,0	58,3
6297	28-out-05	3,2	42,2	47,0	331,0	73,9	6402	28-out-05	2,7	41,7	47,0	346,0	76,7	6507	28-out-05	11,0	48,6	48,0	995,0	58,3
6298	28-out-05	4,4	42,6	47,0	334,0	74,0	6403	28-out-05	2,8	42,3	47,0	356,0	76,7	6508	28-out-05	9,8	44,3	48,0	912,0	58,3
6299	28-out-05	2,9	41,4	47,0	333,0	73,9	6404	28-out-05	2,4	41,5	47,0	353,0	76,7	6509	28-out-05	9,3	45,9	48,0	816,0	58,3
6300	28-out-05	4,1	40,9	47,0	327,0	74,0	6405	28-out-05	2,3	41,4	47,0	324,0	76,7	6510	28-out-05	10,9	45,3	48,0	842,0	58,3
6301	28-out-05	3,6	41,2	47,0	330,0	74,1	6406	28-out-05	2,4	41,7	47,0	338,0	76,7	6511	28-out-05	9,5	45,6	48,0	1007,0	58,3
6302	28-out-05	2,5	41,7	47,0	319,0	76,7	6407	28-out-05	3,6	42,0	47,0	345,0	76,7	6512	28-out-05	10,0	43,5	48,0	830,0	58,3
6303	28-out-05	3,0	41,7	47,0	318,0	76,7	6408	28-out-05	2,5	42,0	47,0	333,0	76,7	6513	28-out-05	9,8	44,1	48,0	823,0	58,3
6304	28-out-05	2,9	41,4	47,0	326,0	76,7	6409	28-out-05	2,5	43,1	47,0	361,0	76,7	6514	28-out-05	11,6	44,1	48,0	851,0	58,3
6305	28-out-05	3,4	41,5	47,0	320,0	76,7	6410	28-out-05	2,7	42,6	47,0	354,0	76,7	6515	28-out-05	10,0	44,5	48,0	823,0	58,3
6306	28-out-05	3,2	41,3	47,0	322,0	76,7	6411	28-out-05	2,2	42,5	47,0	354,0	76,7	6516	28-out-05	10,9	47,2	48,0	967,0	58,3
6307	28-out-05	3,4	41,7	47,0	328,0	76,7	6412	28-out-05	3,8	41,7	48,0	357,0	76,7	6517	28-out-05	10,8	44,0	48,0	930,0	58,3
6308	28-out-05	2,9	41,4	47,0	325,0	76,7	6413	28-out-05	4,1	43,2	49,0	382,0	76,7	6518	28-out-05	9,8	43,6	48,0	793,0	58,3
6309	28-out-05	3,3	41,0	47,0	329,0	76,7	6414	28-out-05	3,0	43,4	51,0	371,0	76,7	6519	28-out-05	8,4	44,6	48,0	908,0	58,3
6310	28-out-05	3,0	41,5	47,0	327,0	76,7	6415	28-out-05	4,7	43,8	58,0	382,0	76,7	6520	28-out-05	10,7	43,9	48,0	827,0	58,3
6311	28-out-05	2,5	41,2	47,0	328,0	76,7	6416	28-out-05	4,7	43,4	67,0	393,0	76,7	6521	28-out-05	9,0	44,6	48,0	878,0	58,3
6312	28-out-05	2,7	41,5	47,0	323,0	76,7	6417	28-out-05	5,0	44,2	79,0	692,0	96,7	6522	28-out-05	9,0	44,6	48,0	878,0	58,3
6313	28-out-05	2,8	41,0	47,0	334,0	76,7	6418	28-out-05	3,6	46,1	84,0	430,0	76,7	6523	28-out-05	8,4	43,3	48,0	881,0	77,6
6314	28-out-05	2,9	41,4	47,0	318,0	76,7	6419	28-out-05	10,7	42,4	45,0	558,0	73,6	6524	28-out-05	8,3	43,1	48,0	903,0	63,2
6315	28-out-05	2,8	41,0	47,0	322,0	76,7	6420	28-out-05	9,5	44,3										

6325	28-out-05	3,4	41,4	47,0	330,0	76,7	6430	28-out-05	11,6	46,3	46,0	879,0	60,9	6535	28-out-05	10,0	44,6	48,0	803,0	72,8
6326	28-out-05	2,5	41,4	47,0	329,0	76,7	6431	28-out-05	10,5	51,3	45,0	984,0	60,9	6536	28-out-05	10,9	43,4	48,0	801,0	72,8
6327	28-out-05	2,8	41,1	47,0	324,0	76,7	6432	28-out-05	11,3	48,0	45,0	991,0	60,8	6537	28-out-05	11,7	42,8	48,0	779,0	72,8
6328	28-out-05	3,0	40,8	47,0	319,0	76,7	6433	28-out-05	11,0	43,7	45,0	910,0	60,8	6538	28-out-05	12,4	43,7	48,0	898,0	72,8
6329	28-out-05	3,0	41,9	47,0	326,0	76,7	6434	28-out-05	10,0	43,7	45,0	784,0	60,8	6539	28-out-05	10,2	43,1	48,0	833,0	62,8
6330	28-out-05	2,7	41,1	47,0	322,0	76,7	6435	28-out-05	10,0	45,2	46,0	907,0	60,8	6540	28-out-05	9,1	43,6	48,0	795,0	62,8
6331	28-out-05	2,5	40,8	47,0	330,0	76,7	6436	28-out-05	11,6	43,9	46,0	999,0	60,8	6541	28-out-05	11,2	43,4	48,0	773,0	62,8
6332	28-out-05	3,2	41,0	47,0	323,0	76,7	6437	28-out-05	11,9	43,3	47,0	968,0	60,8	6542	28-out-05	8,8	46,3	48,0	903,0	62,8
6333	28-out-05	2,7	40,9	47,0	323,0	76,7	6438	28-out-05	9,9	44,2	48,0	897,0	60,9	6543	28-out-05	8,5	58,1	48,0	979,0	80,3
6334	28-out-05	2,7	41,2	47,0	323,0	76,7	6439	28-out-05	12,2	44,7	48,0	901,0	60,9	6544	28-out-05	13,8	58,2	48,0	995,0	70,4
6335	28-out-05	2,7	40,7	47,0	327,0	76,7	6440	28-out-05	10,7	44,9	49,0	941,0	60,8	6545	28-out-05	18,8	70,1	48,0	1005,0	70,7
6336	28-out-05	2,5	40,6	47,0	336,0	76,7	6441	28-out-05	10,0	44,2	49,0	925,0	60,9	6546	28-out-05	20,6	68,2	48,0	1021,0	71,4
6337	28-out-05	2,2	41,5	47,0	345,0	76,7	6442	28-out-05	11,7	44,9	49,0	945,0	60,8	6547	28-out-05	16,5	74,2	48,0	1008,0	71,5
6338	28-out-05	2,8	41,2	47,0	342,0	76,7	6443	28-out-05	11,9	45,5	49,0	892,0	60,9	6548	28-out-05	15,7	75,7	48,0	992,0	71,5
6339	28-out-05	2,4	41,6	47,0	349,0	76,7	6444	28-out-05	10,9	46,1	49,0	818,0	60,9	6549	28-out-05	14,9	72,1	48,0	995,0	71,4
6340	28-out-05	3,0	41,5	47,0	331,0	76,7	6445	28-out-05	9,4	46,3	49,0	1015,0	60,9	6550	28-out-05	16,0	70,7	48,0	1017,0	71,4
6341	28-out-05	2,3	41,6	47,0	343,0	76,7	6446	28-out-05	11,8	47,1	49,0	955,0	60,9	6551	28-out-05	16,3	72,4	48,0	961,0	71,5
6342	28-out-05	2,7	41,4	47,0	345,0	76,7	6447	28-out-05	12,1	44,7	49,0	907,0	59,7	6552	28-out-05	16,1	76,8	48,0	968,0	63,8
6343	28-out-05	2,7	41,6	47,0	329,0	76,7	6448	28-out-05	10,0	44,4	49,0	853,0	58,4	6553	28-out-05	17,7	78,9	48,0	919,0	60,9
6344	28-out-05	2,5	41,3	47,0	350,0	76,7	6449	28-out-05	10,2	44,6	49,0	969,0	58,4	6554	28-out-05	22,5	71,7	48,0	992,0	61,1
6345	28-out-05	2,3	41,0	47,0	339,0	76,7	6450	28-out-05	11,3	45,0	50,0	869,0	58,3	6555	28-out-05	15,2	67,3	48,0	1011,0	74,4
6346	28-out-05	2,9	41,5	47,0	340,0	76,7	6451	28-out-05	10,9	46,2	50,0	984,0	58,4	6556	28-out-05	15,1	75,1	48,0	1033,0	55,3
6347	28-out-05	2,7	41,2	47,0	336,0	76,7	6452	28-out-05	11,4	46,6	50,0	977,0	58,4	6557	28-out-05	16,4	74,3	48,0	1029,0	55,3
6348	28-out-05	2,2	41,2	47,0	346,0	76,7	6453	28-out-05	10,5	45,2	50,0	920,0	58,4	6558	28-out-05	17,7	67,5	48,0	982,0	55,3
6349	28-out-05	2,5	41,5	47,0	330,0	76,7	6454	28-out-05	11,2	47,4	50,0	830,0	58,4	6559	28-out-05	18,5	67,6	48,0	904,0	55,3
6350	28-out-05	2,7	41,5	47,0	341,0	76,7	6455	28-out-05	11,0	46,3	50,0	988,0	58,4	6560	28-out-05	15,5	70,9	48,0	915,0	55,3
6351	28-out-05	3,2	41,7	47,0	350,0	76,7	6456	28-out-05	11,6	44,8	50,0	963,0	58,4	6561	28-out-05	15,5	93,6	48,0	941,0	55,3
6352	28-out-05	2,9	41,3	47,0	346,0	76,7	6457	28-out-05	10,5	45,2	50,0	884,0	58,4	6562	28-out-05	15,4	88,0	48,0	1047,0	55,3
6353	28-out-05	2,9	41,7	47,0	351,0	76,7	6458	28-out-05	11,6	45,4	51,0	976,0	58,4	6563	28-out-05	13,8	85,7	48,0	1014,0	55,3
6354	28-out-05	3,6	42,2	47,0	353,0	76,7	6459	28-out-05	11,9	45,1	51,0	923,0	58,4	6564	28-out-05	15,2	63,9	48,0	1037,0	55,4
6355	28-out-05	3,7	43,2	47,0	368,0	76,7	6460	28-out-05	10,8	44,3	51,0	860,0	58,4	6565	28-out-05	14,6	63,5	48,0	989,0	55,3
6356	28-out-05	3,6	42,2	47,0	361,0	76,7	6461	28-out-05	11,2	44,6	51,0	976,0	58,4	6566	28-out-05	16,9	70,2	48,0	1030,0	62,8
6357	28-out-05	2,8	41,6	47,0	343,0	76,7	6462	28-out-05	11,7	44,2	51,0	855,0	58,4	6567	28-out-05	16,6	75,8	48,0	998,0	74,1
6358	28-out-05	2,3	41,7	47,0	333,0	76,7	6463	28-out-05	10,9	43,9	51,0	915,0	58,4	6568	28-out-05	13,1	75,2	48,0	1009,0	64,5
6359	28-out-05	2,4	41,5	47,0	330,0	76,7	6464	28-out-05	10,8	45,5	51,0	915,0	58,4	6569	28-out-05	14,7	66,5	48,0	1006,0	74,2
6360	28-out-05	2,7	41,9	47,0	343,0	76,7	6465	28-out-05	11,7	41,6	51,0	828,0	58,3	6570	28-out-05	14,4	68,2	48,0	1020,0	74,3
6361	28-out-05	2,4	41,7	47,0	336,0	76,7	6466	28-out-05	10,9	42,5	51,0	899,0	58,3	6571	28-out-05	18,2	82,3	48,0	1010,0	74,2
6362	28-out-05	2,4	42,3	47,0	346,0	76,7	6467	28-out-05	10,5	43,5	51,0	869,0	58,3	6572	28-out-05	16,8	90,1	48,0	1017,0	74,2
6363	28-out-05	2,9	41,8	47,0	356,0	76,6	6468	28-out-05	11,4	44,9	51,0	862,0	58,4	6573	28-out-05	18,9	68,4	48,0	1026,0	74,2
6364	28-out-05	2,7	41,5	47,0	338,0	76,6	6469	28-out-05	11,4	43,6	51,0	966,0	58,4	6574	28-out-05	17,0	72,0	48,0	963,0	74,4
6365	28-out-05	2,8	41,9	47,0	346,0	76,6	6470	28-out-05	11,0	42,6	51,0	966,0	58,3	6575	28-out-05	16,4	69,6	48,0	1017,0	74,0
6366	28-out-05	3,7	43,0	47,0	362,0	76,6	6471	28-out-05	11,2	46,5	51,0	997,0	58,4	6576	28-out-05	14,9	90,7	48,0	966,0	74,0
6367	28-out-05	5,0	42,5	47,0	353,0	76,6	6472	28-out-05	10,9	43,6	50,0	847,0	58,3	6577	28-out-05	17,4	90,1	48,0	1013,0	74,0
6368	28-out-05	3,9	42,5	47,0	353,0	76,6	6473	28-out-05	10,9	44,5	50,0	846,0	58,3	6578	28-out-05	16,6	73,8	48,0	924,0	74,0
6369	28-out-05	3,8	42,3	47,0	369,0	76,6	6474	28-out-05	11,7	45,6	50,0	1016,0	58,3	6579	28-out-05	18,7	72,4	48,0	862,0	73,9
6370	28-out-05	3,9	42,7	47,0	369,0	76,6	6475	28-out-05	10,4	47,0	50,0	937,0	58,4	6580	28-out-05	18,7	59,2	48,0	726,0	73,9
6371	28-out-05	4,2	41,6	47,0	353,0	76,7	6476	28-out-05	9,5	46,2	50,0	949,0	58,4	6581	28-out-05	14,7	70,3	48,0	915,0	73,9
6372	28-out-05	3,9	43,1	47,0	374,0	76,7	6477	28-out-05	10,5	45,7	50,0	797,0	58,4	6582	28-out-05	16,0	74,0	48,0	998,0	74,0
6373	28-out-05	3,8	42,0	47,0	343,0	76,7	6478	28-out-05	10,5	46,0	50,0	965,0	58,3	6583	28-out-05	15,9	70,8	48,0	990,0	74,0
6374	28-out-05	3,7	41,8	47,0	354,0	76,7	6479	28-out-05	9,0	46,0	50,0	837,0	58,4	6584	28-out-05	14,5	79,1	48,0	1021,0	74,0
6375	28-out-05	3,7	42,1	47,0	332,0	76,7	6480	28-out-05	8,8	45,6	49,0	956,0	58,4	6585	28-out-05	16,0	77,4	48,0	1033,0	74,0
6376	28-out-05	3,4	42,4	47,0	348,0	76,7	6481	28-out-05	10,4	45,4	49,0	828,0	58,4	6586	28-out-05	16,8	77,0	48,0	1024,0	74,0
6377	28-out-05	2,8	41,8	47,0	351,0	76,7	6482	28-out-05	10,4	46,0	49,0	823,0	58,4	6587	28-out-05	18,9	76,7	48,0	1051,0	74,0
6378	28-out-05	2,8	43,1	47,0	354,0	76,7	6483	28-out-05	9,7	44,2	49,0	848,0	58,4	6588	28-out-05	16,5	76,4	48,0	882,0	73,9
6379	28-out-05	3,3	42,1	47,0	353,0	76,7	6484	28-out-05	9,9	45,4	49,0	839,0	58,4	6589	28-out-05	17,4	74,5	48,0	1007,0	74,0
6380	28-out-05	3,3	42,9	47,0	347,0	76,7	6485	28-out-05	11,6	45,5	49,0	836,0	58,4	6590	28-out-05	15,4	73,8	48,0	975,0	74,0
6381	28-out-05	2,8	42,4	47,0	346,0	76,7	6486	28-out-05	10,0	45,8	49,0	849,0	58,4	6591	28-out-05	15,5	76,3	48,0	1023,0	74,0
6382	28-out-05	2,7	42,0	47,0	326,0	76,7	6487	28-out-05	9,1	46,1	49,0	857,0	58,4	6592	28-out-05	15,0	79,5	48,0	1007,0	74,0
6383	28-out-05	3,2	42,0	47,0	347,0	76,7	6488	28-out-05	10,5	45,5	49,0	864,0	58,3	6593	28-out-05	17,0	71,3	48,0	992,0	73,9
6384	28-out-05	4,4	42,6	47,0	346,0	76,7	6489	28-out-05	10,5	45,8	49,0	910,0	58,3	6594	28-out-05	15,4	60,5	48,0	946,0	73,9
6385	28-out-05	3,6	41,5	47,0	346,0	76,7	6490	28-out-05	10,9	47,0	49,0	967,0	58,3	6595	28-out-05	14,7	74,8	48,0	1027	

6396	28-out-05	2,3	41,8	47,0	326,0	76,7	6501	28-out-05	9,4	42,0	48,0	935,0	58,3	6606	28-out-05	16,8	74,5	48,0	1051,0	63,8
6397	28-out-05	2,5	41,2	47,0	333,0	76,7	6502	28-out-05	10,9	42,1	48,0	958,0	58,3	6607	28-out-05	15,5	68,0	48,0	1024,0	63,8
6398	28-out-05	2,4	41,2	47,0	328,0	76,7	6503	28-out-05	10,2	43,0	48,0	937,0	58,3	6608	28-out-05	16,4	72,6	48,0	961,0	73,9
6399	28-out-05	2,0	41,8	47,0	339,0	76,7	6504	28-out-05	11,6	43,2	48,0	843,0	58,3	6609	28-out-05	12,8	70,7	48,0	723,0	73,9
6610	28-out-05	15,1	72,2	48,0	994,0	63,8	6715	28-out-05	15,9	70,6	48,0	853,0	59,8	6820	28-out-05	11,4	68,4	48,0	960,0	65,2
6611	28-out-05	15,7	71,4	48,0	1024,0	63,8	6716	28-out-05	19,1	71,9	48,0	938,0	59,8	6821	28-out-05	9,1	66,9	48,0	958,0	65,2
6612	28-out-05	17,1	70,1	48,0	994,0	63,8	6717	28-out-05	17,4	71,8	48,0	914,0	59,8	6822	28-out-05	10,7	71,0	48,0	934,0	65,2
6613	28-out-05	18,2	75,9	48,0	981,0	73,9	6718	28-out-05	17,8	74,8	48,0	1031,0	59,8	6823	28-out-05	11,0	71,1	48,0	988,0	65,2
6614	28-out-05	17,0	69,7	48,0	1031,0	73,9	6719	28-out-05	18,0	72,4	48,0	1011,0	59,8	6824	28-out-05	11,2	73,0	48,0	992,0	65,2
6615	28-out-05	15,6	73,8	48,0	994,0	73,9	6720	28-out-05	17,0	68,6	48,0	926,0	59,8	6825	28-out-05	10,4	67,8	48,0	1025,0	65,2
6616	28-out-05	16,3	75,5	48,0	1006,0	73,9	6721	28-out-05	18,2	68,0	48,0	1015,0	59,8	6826	28-out-05	12,2	60,6	48,0	940,0	65,2
6617	28-out-05	20,4	76,3	48,0	1020,0	73,9	6722	28-out-05	13,2	65,3	48,0	866,0	87,8	6827	28-out-05	10,0	67,6	48,0	993,0	65,3
6618	28-out-05	17,0	71,3	48,0	943,0	73,9	6723	28-out-05	10,8	62,9	48,0	1009,0	77,9	6828	28-out-05	11,7	69,7	48,0	973,0	65,3
6619	28-out-05	14,5	67,9	48,0	997,0	73,9	6724	28-out-05	14,2	63,1	48,0	1002,0	77,9	6829	28-out-05	9,7	71,2	48,0	984,0	65,3
6620	28-out-05	16,5	71,7	48,0	849,0	63,8	6725	28-out-05	11,8	66,2	48,0	1022,0	77,9	6830	28-out-05	10,3	67,0	48,0	1017,0	65,2
6621	28-out-05	18,2	65,4	48,0	982,0	63,8	6726	28-out-05	13,0	62,4	48,0	999,0	68,0	6831	28-out-05	9,1	63,2	48,0	934,0	65,2
6622	28-out-05	14,5	71,4	48,0	1061,0	63,8	6727	28-out-05	13,5	65,1	48,0	1033,0	61,9	6832	28-out-05	9,4	73,1	48,0	1005,0	65,2
6623	28-out-05	14,9	73,0	48,0	997,0	73,9	6728	28-out-05	13,8	64,1	48,0	956,0	61,9	6833	28-out-05	9,7	66,8	48,0	929,0	65,2
6624	28-out-05	17,3	80,5	48,0	1047,0	73,9	6729	28-out-05	13,2	72,0	48,0	986,0	61,9	6834	28-out-05	9,1	66,9	48,0	951,0	65,2
6625	28-out-05	17,4	79,0	48,0	1040,0	73,9	6730	28-out-05	14,4	67,4	48,0	975,0	61,9	6835	28-out-05	9,1	63,2	48,0	979,0	65,2
6626	28-out-05	18,8	83,9	48,0	1026,0	73,9	6731	28-out-05	14,0	69,9	48,0	1018,0	61,9	6836	28-out-05	9,1	59,9	48,0	917,0	65,2
6627	28-out-05	15,7	69,7	48,0	1023,0	73,9	6732	28-out-05	13,5	68,9	48,0	1015,0	61,9	6837	28-out-05	8,9	63,4	48,0	988,0	65,3
6628	28-out-05	20,2	80,8	48,0	1034,0	73,9	6733	28-out-05	15,5	69,4	48,0	1037,0	61,9	6838	28-out-05	8,8	66,5	48,0	936,0	65,8
6629	28-out-05	18,7	79,9	48,0	1038,0	73,9	6734	28-out-05	18,5	59,4	48,0	1024,0	81,8	6839	28-out-05	9,3	63,5	48,0	974,0	67,8
6630	28-out-05	13,7	80,7	48,0	1028,0	73,9	6735	28-out-05	15,4	66,2	48,0	1019,0	61,9	6840	28-out-05	7,9	71,0	48,0	894,0	66,2
6631	28-out-05	17,5	81,3	48,0	1019,0	73,9	6736	28-out-05	13,8	62,4	48,0	1011,0	81,8	6841	28-out-05	8,4	66,8	48,0	975,0	67,3
6632	28-out-05	20,3	74,1	48,0	1013,0	73,9	6737	28-out-05	14,0	76,4	48,0	962,0	61,9	6842	28-out-05	7,9	65,0	48,0	963,0	67,3
6633	28-out-05	15,9	65,7	48,0	914,0	63,8	6738	28-out-05	13,7	72,8	48,0	1012,0	61,9	6843	28-out-05	7,1	63,1	48,0	982,0	67,3
6634	28-out-05	17,5	70,6	48,0	1013,0	63,8	6739	28-out-05	14,4	70,8	48,0	1027,0	61,9	6844	28-out-05	6,4	61,8	48,0	946,0	67,3
6635	28-out-05	15,6	71,2	48,0	1028,0	63,8	6740	28-out-05	15,1	67,8	48,0	1008,0	61,9	6845	28-out-05	7,1	62,6	48,0	942,0	67,3
6636	28-out-05	17,4	72,7	48,0	992,0	73,9	6741	28-out-05	17,5	69,1	48,0	977,0	61,9	6846	28-out-05	6,6	70,7	48,0	970,0	67,3
6637	28-out-05	19,3	77,2	48,0	938,0	63,8	6742	28-out-05	12,7	61,7	48,0	1025,0	81,8	6847	28-out-05	6,9	65,3	48,0	919,0	67,3
6638	28-out-05	23,2	83,6	48,0	1046,0	73,9	6743	28-out-05	12,8	61,3	48,0	979,0	81,8	6848	28-out-05	7,6	71,5	48,0	954,0	67,3
6639	28-out-05	16,5	89,1	48,0	1029,0	73,9	6744	28-out-05	13,8	64,2	48,0	956,0	81,8	6849	28-out-05	7,2	64,6	48,0	969,0	68,1
6640	28-out-05	17,0	73,8	48,0	1014,0	73,9	6745	28-out-05	13,7	69,1	48,0	998,0	61,9	6850	28-out-05	7,9	69,5	48,0	930,0	68,1
6641	28-out-05	20,3	74,6	48,0	992,0	73,9	6746	28-out-05	12,6	67,7	48,0	1026,0	61,9	6851	28-out-05	7,2	77,4	48,0	905,0	81,0
6642	28-out-05	18,5	76,6	48,0	1022,0	73,9	6747	28-out-05	14,0	61,7	48,0	995,0	81,8	6852	28-out-05	9,1	75,3	48,0	925,0	88,1
6643	28-out-05	12,2	80,2	48,0	853,0	73,9	6748	28-out-05	15,0	60,6	48,0	1007,0	81,8	6853	28-out-05	8,0	60,6	48,0	874,0	88,7
6644	28-out-05	12,6	71,9	48,0	992,0	63,8	6749	28-out-05	12,4	61,4	48,0	958,0	81,8	6854	28-out-05	7,5	63,0	48,0	864,0	86,9
6645	28-out-05	14,1	71,1	48,0	968,0	63,8	6750	28-out-05	14,7	66,5	48,0	963,0	81,8	6855	28-out-05	8,3	64,8	48,0	854,0	87,5
6646	28-out-05	14,1	68,7	48,0	979,0	63,8	6751	28-out-05	14,0	64,2	48,0	908,0	81,8	6856	28-out-05	7,7	62,5	48,0	871,0	87,5
6647	28-out-05	16,4	64,1	48,0	1011,0	63,8	6752	28-out-05	15,0	69,7	48,0	874,0	61,9	6857	28-out-05	8,6	65,2	48,0	888,0	89,0
6648	28-out-05	13,6	70,3	48,0	984,0	63,8	6753	28-out-05	14,0	68,9	48,0	1025,0	61,9	6858	28-out-05	7,1	66,1	48,0	862,0	87,5
6649	28-out-05	15,4	68,1	48,0	916,0	63,8	6754	28-out-05	14,0	60,2	48,0	1010,0	79,8	6859	28-out-05	8,6	64,5	48,0	849,0	93,7
6650	28-out-05	15,4	72,4	48,0	1049,0	63,8	6755	28-out-05	14,5	63,8	48,0	884,0	79,9	6860	28-out-05	9,8	61,0	48,0	872,0	93,6
6651	28-out-05	14,0	78,6	48,0	973,0	63,8	6756	28-out-05	16,8	60,1	48,0	992,0	79,9	6861	28-out-05	11,8	64,4	48,0	845,0	93,6
6652	28-out-05	11,7	79,6	48,0	945,0	63,8	6757	28-out-05	13,7	65,6	48,0	1010,0	79,9	6862	28-out-05	9,8	64,7	48,0	842,0	93,4
6653	28-out-05	13,6	68,1	48,0	989,0	63,8	6758	28-out-05	13,8	65,0	48,0	995,0	79,9	6863	28-out-05	9,4	60,0	48,0	834,0	92,9
6654	28-out-05	12,4	66,9	48,0	1031,0	63,8	6759	28-out-05	14,0	60,0	48,0	964,0	79,9	6864	28-out-05	8,5	59,9	48,0	807,0	92,4
6655	28-out-05	14,0	62,8	48,0	929,0	62,8	6760	28-out-05	16,1	71,9	48,0	1046,0	79,9	6865	28-out-05	10,2	62,5	48,0	814,0	91,1
6656	28-out-05	15,0	68,6	48,0	989,0	59,9	6761	28-out-05	14,7	58,6	48,0	858,0	79,9	6866	28-out-05	7,0	57,8	48,0	777,0	91,1
6657	28-out-05	13,2	69,3	48,0	1011,0	59,9	6762	28-out-05	12,3	67,9	48,0	1023,0	79,9	6867	28-out-05	6,6	59,5	48,0	773,0	92,0
6658	28-out-05	12,3	66,8	48,0	1010,0	59,8	6763	28-out-05	15,0	56,6	48,0	1000,0	79,9	6868	28-out-05	7,7	59,4	48,0	790,0	92,0
6659	28-out-05	12,2	66,9	48,0	1001,0	59,8	6764	28-out-05	14,6	67,0	48,0	922,0	79,9	6869	28-out-05	6,6	57,1	48,0	763,0	92,0
6660	28-out-05	12,8	68,9	48,0	969,0	59,8	6765	28-out-05	13,5	59,8	48,0	968,0	79,9	6870	28-out-05	8,1	56,0	48,0	716,0	91,9
6661	28-out-05	13,1	68,9	48,0	980,0	59,8	6766	28-out-05	16,4	57,5	48,0	879,0	79,9	6871	28-out-05	9,3	52,2	48,0	769,0	91,9
6662	28-out-05	12,2	69,1	48,0	920,0	59,8	6767	28-out-05	14,7	70,6	48,0	998,0	79,9	6872	28-out-05	7,6	52,4	48,0	712,0	91,9
6663	28-out-05	12,3	68,1	48,0	936,0	59,8	6768	28-out-05	15,6	60,0	48,0	965,0	79,9	6873	28-out-05	9,0	52,5	48,0	715,0	91,9
6664	28-out-05	17,9	66,8	48,0	989,0	59,7	6769	28-out-05	14,7	70,1	48,0	1053,0	79,9	6874	28-out-05	10,8	52,9	48,0	713,0	91,9
6665	28-out-05	11,2	65,8	48,0	948,0	59,7	6770	28-out-05	14,4	59,8	48,0	1030,0	79,9	6875	28-out-05	11,0	60,2	48,0	707,0	99,1
6666	28-out-05	9,9	70,4	48,0	940,0	59,8	6771	28-out-05	15,2	63,1	48,0	862,0	79,9							

6677	28-out-05	8,6	63,7	48,0	934,0	59,4	6782	28-out-05	10,7	56,6	48,0	838,0	79,9	6887	28-out-05	10,0	54,5	48,0	768,0	105,5
6678	28-out-05	8,6	67,2	48,0	967,0	59,8	6783	28-out-05	10,5	62,5	48,0	915,0	79,9	6888	28-out-05	9,9	54,4	48,0	776,0	105,5
6679	28-out-05	10,8	76,4	48,0	924,0	59,8	6784	28-out-05	10,2	64,6	48,0	1026,0	79,9	6889	28-out-05	11,9	57,2	48,0	888,0	85,6
6680	28-out-05	13,0	65,4	48,0	935,0	59,8	6785	28-out-05	8,9	57,4	48,0	1006,0	79,9	6890	28-out-05	11,3	43,7	45,0	820,0	67,1
6681	28-out-05	12,8	80,3	48,0	1010,0	59,9	6786	28-out-05	10,8	66,9	48,0	998,0	79,9	6891	28-out-05	10,5	47,3	45,0	985,0	87,2
6682	28-out-05	13,0	66,0	48,0	977,0	59,8	6787	28-out-05	11,3	57,7	48,0	992,0	79,9	6892	28-out-05	7,1	53,4	45,0	978,0	82,7
6683	28-out-05	14,9	69,5	48,0	969,0	59,7	6788	28-out-05	13,1	72,2	48,0	930,0	79,9	6893	28-out-05	6,0	62,8	45,0	653,0	72,8
6684	28-out-05	13,7	67,8	48,0	998,0	59,7	6789	28-out-05	8,1	63,7	48,0	994,0	79,9	6894	28-out-05	7,0	77,7	45,0	721,0	62,6
6685	28-out-05	13,6	70,8	48,0	1009,0	59,8	6790	28-out-05	10,4	60,2	48,0	993,0	79,9	6895	28-out-05	6,9	59,6	45,0	991,0	82,6
6686	28-out-05	11,4	71,6	48,0	930,0	59,8	6791	28-out-05	10,4	67,9	48,0	1008,0	79,9	6896	28-out-05	7,7	51,8	45,0	560,0	82,5
6687	28-out-05	12,2	68,5	48,0	943,0	59,8	6792	28-out-05	10,0	59,9	48,0	987,0	79,9	6897	28-out-05	9,9	54,5	45,0	868,0	62,6
6688	28-out-05	12,3	69,7	48,0	953,0	59,8	6793	28-out-05	8,8	69,4	48,0	1022,0	79,9	6898	28-out-05	7,2	63,7	45,0	866,0	62,6
6689	28-out-05	13,5	67,2	48,0	1004,0	59,7	6794	28-out-05	9,0	60,2	48,0	892,0	79,9	6899	28-out-05	7,5	84,9	45,0	813,0	82,7
6690	28-out-05	12,3	62,9	48,0	989,0	59,7	6795	28-out-05	10,3	70,2	48,0	1046,0	79,9	6900	28-out-05	8,5	78,1	45,0	724,0	62,7
6691	28-out-05	12,1	66,1	48,0	979,0	59,7	6796	28-out-05	8,6	61,2	48,0	1017,0	79,9	6901	28-out-05	7,0	83,6	45,0	906,0	81,1
6692	28-out-05	15,0	64,0	48,0	951,0	59,7	6797	28-out-05	11,0	60,7	48,0	992,0	79,9	6902	28-out-05	14,9	103,4	45,0	859,0	55,4
6693	28-out-05	11,3	62,0	48,0	994,0	59,7	6798	28-out-05	9,5	66,0	48,0	914,0	79,9	6903	28-out-05	10,0	71,9	45,0	895,0	55,3
6694	28-out-05	11,7	66,8	48,0	1000,0	59,7	6799	28-out-05	11,0	56,4	48,0	884,0	79,9	6904	28-out-05	9,1	77,2	45,0	936,0	55,3
6695	28-out-05	12,1	66,3	48,0	1007,0	59,7	6800	28-out-05	8,8	63,7	48,0	1015,0	79,9	6905	28-out-05	8,8	74,8	45,0	900,0	75,2
6696	28-out-05	12,4	66,6	48,0	1038,0	59,7	6801	28-out-05	10,0	61,7	48,0	970,0	79,9	6906	28-out-05	10,8	85,3	45,0	895,0	55,3
6697	28-out-05	13,1	67,5	48,0	988,0	59,7	6802	28-out-05	11,6	67,4	48,0	997,0	79,9	6907	28-out-05	10,3	82,2	45,0	906,0	55,5
6698	28-out-05	11,9	63,1	48,0	904,0	59,7	6803	28-out-05	8,5	61,8	48,0	937,0	79,9	6908	28-out-05	11,9	118,5	45,0	996,0	55,5
6699	28-out-05	12,1	62,6	48,0	967,0	59,7	6804	28-out-05	9,9	67,1	48,0	925,0	59,6	6909	28-out-05	8,8	91,3	45,0	992,0	55,5
6700	28-out-05	12,4	68,3	48,0	993,0	59,7	6805	28-out-05	13,6	64,2	48,0	930,0	65,5	6910	28-out-05	8,8	77,9	45,0	985,0	55,4
6701	28-out-05	14,5	62,8	48,0	939,0	59,7	6806	28-out-05	11,0	65,7	48,0	1000,0	71,4	6911	28-out-05	8,4	106,0	45,0	951,0	68,6
6702	28-out-05	12,4	66,2	48,0	1041,0	59,7	6807	28-out-05	14,1	62,8	48,0	993,0	71,3	6912	28-out-05	6,5	102,3	45,0	991,0	68,7
6703	28-out-05	13,2	62,8	48,0	943,0	59,7	6808	28-out-05	10,8	61,9	48,0	925,0	66,2	6913	28-out-05	6,1	98,5	46,0	972,0	68,7
6704	28-out-05	11,7	70,5	48,0	974,0	59,7	6809	28-out-05	10,2	60,9	48,0	923,0	67,3	6914	28-out-05	7,7	74,1	46,0	925,0	68,7
6705	28-out-05	15,7	66,4	48,0	1003,0	59,8	6810	28-out-05	10,4	66,2	48,0	895,0	67,4	6915	28-out-05	9,1	76,1	46,0	939,0	68,6
6706	28-out-05	14,5	70,0	48,0	1003,0	59,8	6811	28-out-05	10,9	65,5	48,0	1002,0	67,3	6916	28-out-05	9,1	106,4	46,0	976,0	68,6
6707	28-out-05	12,4	79,2	48,0	984,0	59,8	6812	28-out-05	11,4	65,5	48,0	982,0	64,8	6917	28-out-05	8,9	84,0	46,0	989,0	68,6
6708	28-out-05	13,7	72,0	48,0	1003,0	59,8	6813	28-out-05	11,7	66,4	48,0	916,0	64,9	6918	28-out-05	6,5	93,1	46,0	961,0	68,6
6709	28-out-05	14,9	71,0	48,0	942,0	59,8	6814	28-out-05	10,7	61,8	48,0	945,0	65,2	6919	28-out-05	8,3	105,7	46,0	730,0	68,7
6710	28-out-05	14,4	76,8	48,0	913,0	59,8	6815	28-out-05	10,9	66,5	48,0	923,0	65,2	6920	28-out-05	7,0	109,6	46,0	986,0	68,6
6711	28-out-05	15,2	77,8	48,0	876,0	59,8	6816	28-out-05	11,3	65,1	48,0	965,0	65,2	6921	28-out-05	6,6	82,5	46,0	913,0	68,6
6712	28-out-05	14,9	73,8	48,0	810,0	59,8	6817	28-out-05	9,1	62,9	48,0	997,0	65,2	6922	28-out-05	8,3	83,9	46,0	991,0	68,7
6713	28-out-05	15,5	69,4	48,0	943,0	59,8	6818	28-out-05	9,5	69,3	48,0	947,0	65,2	6923	28-out-05	7,0	88,8	46,0	988,0	68,7
6714	28-out-05	15,4	68,0	48,0	997,0	59,8	6819	28-out-05	12,1	65,2	48,0	993,0	65,2	6924	28-out-05	7,1	89,4	46,0	842,0	68,6
6925	28-out-05	6,2	109,8	47,0	722,0	67,8	7030	28-out-05	7,2	90,9	48,0	1029,0	68,7	7135	28-out-05	5,1	62,5	48,0	930,0	73,6
6926	28-out-05	8,1	90,3	48,0	1017,0	68,7	7031	28-out-05	7,0	82,1	48,0	943,0	68,7	7136	28-out-05	4,1	81,6	48,0	955,0	73,6
6927	28-out-05	7,5	83,4	50,0	972,0	68,6	7032	28-out-05	6,4	80,8	48,0	946,0	68,6	7137	28-out-05	3,4	67,7	48,0	912,0	73,6
6928	28-out-05	6,7	87,8	50,0	1031,0	68,7	7033	28-out-05	7,4	69,1	48,0	946,0	68,6	7138	28-out-05	3,6	64,3	48,0	982,0	73,6
6929	28-out-05	6,6	80,2	50,0	959,0	68,6	7034	28-out-05	5,7	72,1	48,0	1002,0	67,4	7139	28-out-05	3,4	66,8	48,0	927,0	73,6
6930	28-out-05	8,3	84,1	50,0	971,0	68,6	7035	28-out-05	4,7	88,2	48,0	959,0	70,4	7140	28-out-05	4,1	83,7	48,0	951,0	73,6
6931	28-out-05	5,8	106,9	49,0	1029,0	68,6	7036	28-out-05	4,7	74,9	48,0	939,0	76,7	7141	28-out-05	3,6	57,7	48,0	929,0	73,6
6932	28-out-05	6,4	77,4	49,0	946,0	68,6	7037	28-out-05	5,1	76,6	48,0	707,0	67,4	7142	28-out-05	3,7	58,4	48,0	911,0	73,6
6933	28-out-05	6,7	77,5	49,0	964,0	68,6	7038	28-out-05	4,6	75,8	48,0	991,0	67,4	7143	28-out-05	3,8	78,9	48,0	968,0	73,7
6934	28-out-05	7,5	66,8	49,0	971,0	68,6	7039	28-out-05	5,2	86,3	48,0	973,0	67,4	7144	28-out-05	3,0	60,5	48,0	923,0	73,6
6935	28-out-05	7,5	78,2	48,0	991,0	68,6	7040	28-out-05	7,1	104,4	48,0	1010,0	77,5	7145	28-out-05	3,9	57,3	48,0	886,0	73,6
6936	28-out-05	7,4	103,3	48,0	1007,0	68,6	7041	28-out-05	7,1	85,4	48,0	946,0	67,4	7146	28-out-05	3,4	62,3	48,0	907,0	73,6
6937	28-out-05	7,2	79,6	48,0	1008,0	68,7	7042	28-out-05	5,6	70,6	48,0	1009,0	67,4	7147	28-out-05	3,9	64,7	48,0	930,0	73,6
6938	28-out-05	8,5	87,9	48,0	971,0	68,7	7043	28-out-05	4,7	81,9	48,0	983,0	67,4	7148	28-out-05	3,6	69,9	48,0	958,0	73,6
6939	28-out-05	8,4	76,8	49,0	981,0	68,6	7044	28-out-05	5,1	79,6	48,0	1016,0	67,4	7149	28-out-05	3,4	56,1	48,0	920,0	73,6
6940	28-out-05	6,1	77,7	49,0	989,0	68,6	7045	28-out-05	5,2	75,6	48,0	980,0	67,4	7150	28-out-05	4,3	66,8	48,0	903,0	73,6
6941	28-out-05	7,2	80,1	49,0	1028,0	68,7	7046	28-out-05	5,2	72,0	48,0	1007,0	67,4	7151	28-out-05	5,7	64,8	48,0	917,0	73,7
6942	28-out-05	6,4	69,5	49,0	932,0	68,6	7047	28-out-05	4,4	66,5	48,0	953,0	77,3	7152	28-out-05	4,6	81,5	48,0	888,0	73,7
6943	28-out-05	8,6	80,9	49,0	915,0	68,6	7048	28-out-05	5,1	78,3	48,0	1040,0	67,4	7153	28-out-05	4,3	66,9	48,0	900,0	73,7
6944	28-out-05	8,9	105,5	49,0	1002,0	68,6	7049	28-out-05	4,6	77,0	48,0	1019,0	67,4	7154	28-out-05	3,6	74,5	48,0	944,0	73,7
6945	28-out-05	11,4	76,8	49,0	942,0	68,6	7050	28-out-05	4,6	71,1	48,0	1050,0	67,4	7155	28-out-05	3,8	83,4	48,0	898,0	73,7
6946	28-out-05	11,4	92,0	49,0	993,0	68,6	7051	28-out-05	5,7	80,4	48,0	1016,0	67,4	7156	28-out-05	3,8	73,8	48,0	992,0	73,7
6947	28-out-05	6,1	61,1	49,0	753,0	68,6	7052	28-out-05	5,5	66,0	48,0	966,0	67,4	7157	28-out-05	4,2	60,5	48,0	903,0	72,8

6959	28-out-05	8,6	64,3	48,0	962,0	68,6	7064	28-out-05	4,1	74,5	48,0	1039,0	81,8	7169	28-out-05	4,2	63,2	48,0	908,0	72,8
6960	28-out-05	7,2	75,3	48,0	898,0	68,6	7065	28-out-05	5,6	70,0	48,0	952,0	72,3	7170	28-out-05	5,2	90,4	48,0	942,0	72,8
6961	28-out-05	8,9	76,2	48,0	964,0	68,6	7066	28-out-05	5,0	62,8	48,0	961,0	62,1	7171	28-out-05	4,3	77,5	48,0	905,0	72,8
6962	28-out-05	9,3	71,5	48,0	995,0	68,6	7067	28-out-05	4,7	59,6	48,0	933,0	62,1	7172	28-out-05	3,8	68,6	48,0	899,0	72,8
6963	28-out-05	7,1	87,7	48,0	1006,0	68,6	7068	28-out-05	4,3	63,7	48,0	1011,0	62,1	7173	28-out-05	4,2	77,4	48,0	898,0	72,8
6964	28-out-05	9,4	82,5	48,0	1034,0	68,6	7069	28-out-05	5,2	90,6	48,0	1014,0	62,1	7174	28-out-05	4,4	77,6	48,0	901,0	72,8
6965	28-out-05	8,3	79,9	48,0	1015,0	68,6	7070	28-out-05	5,1	75,1	48,0	1029,0	62,1	7175	28-out-05	3,8	68,4	48,0	958,0	72,8
6966	28-out-05	7,9	74,4	48,0	1019,0	68,6	7071	28-out-05	6,1	74,2	48,0	950,0	62,1	7176	28-out-05	3,6	70,5	48,0	938,0	72,8
6967	28-out-05	8,9	89,0	48,0	1007,0	68,6	7072	28-out-05	5,0	79,1	48,0	1007,0	62,1	7177	28-out-05	3,4	86,8	48,0	959,0	72,8
6968	28-out-05	11,2	75,6	48,0	995,0	68,6	7073	28-out-05	4,1	77,2	48,0	916,0	62,1	7178	28-out-05	3,4	64,8	48,0	996,0	62,7
6969	28-out-05	9,5	74,8	48,0	1028,0	68,6	7074	28-out-05	6,4	68,6	48,0	951,0	62,1	7179	28-out-05	3,8	64,0	48,0	901,0	72,8
6970	28-out-05	8,1	84,2	48,0	984,0	68,6	7075	28-out-05	5,0	73,1	48,0	963,0	62,1	7180	28-out-05	3,9	75,3	48,0	985,0	69,9
6971	28-out-05	7,9	75,8	48,0	993,0	68,6	7076	28-out-05	6,4	75,5	48,0	923,0	62,1	7181	28-out-05	3,2	82,5	48,0	992,0	72,8
6972	28-out-05	6,9	77,4	48,0	953,0	68,6	7077	28-out-05	4,6	91,6	48,0	979,0	62,1	7182	28-out-05	2,8	78,2	48,0	937,0	69,9
6973	28-out-05	9,0	73,8	48,0	1005,0	68,6	7078	28-out-05	5,6	67,6	48,0	914,0	62,1	7183	28-out-05	3,7	79,3	48,0	931,0	72,8
6974	28-out-05	7,6	70,4	48,0	994,0	68,6	7079	28-out-05	4,4	74,0	48,0	1013,0	73,1	7184	28-out-05	4,2	85,2	48,0	896,0	69,9
6975	28-out-05	6,7	83,6	48,0	981,0	68,6	7080	28-out-05	4,4	77,3	48,0	946,0	72,8	7185	28-out-05	4,2	82,2	48,0	974,0	69,9
6976	28-out-05	6,7	71,8	48,0	1001,0	68,6	7081	28-out-05	4,8	71,9	48,0	849,0	72,8	7186	28-out-05	4,7	75,9	48,0	930,0	68,0
6977	28-out-05	6,6	81,0	48,0	993,0	68,6	7082	28-out-05	5,8	88,5	48,0	941,0	69,9	7187	28-out-05	4,4	69,8	48,0	887,0	68,0
6978	28-out-05	6,1	77,0	48,0	1001,0	68,6	7083	28-out-05	5,2	77,5	48,0	1020,0	69,9	7188	28-out-05	3,7	87,5	48,0	992,0	68,0
6979	28-out-05	5,8	77,4	48,0	1023,0	68,6	7084	28-out-05	4,2	75,6	48,0	999,0	72,8	7189	28-out-05	4,3	66,1	48,0	915,0	69,9
6980	28-out-05	7,1	73,9	48,0	969,0	68,6	7085	28-out-05	4,1	70,5	48,0	996,0	72,8	7190	28-out-05	4,1	57,0	48,0	893,0	68,0
6981	28-out-05	7,7	74,0	48,0	992,0	68,6	7086	28-out-05	4,8	74,0	48,0	808,0	69,9	7191	28-out-05	3,7	63,3	48,0	897,0	68,0
6982	28-out-05	6,2	72,2	48,0	957,0	68,6	7087	28-out-05	4,2	88,2	48,0	1003,0	69,9	7192	28-out-05	3,8	87,7	48,0	936,0	68,0
6983	28-out-05	6,2	68,9	48,0	941,0	68,6	7088	28-out-05	3,9	68,9	48,0	886,0	72,8	7193	28-out-05	5,0	71,6	48,0	894,0	69,9
6984	28-out-05	6,5	84,1	48,0	1008,0	68,6	7089	28-out-05	4,4	69,8	48,0	913,0	69,9	7194	28-out-05	3,7	56,7	48,0	899,0	69,9
6985	28-out-05	6,7	73,1	48,0	991,0	68,6	7090	28-out-05	5,1	80,4	48,0	1042,0	69,9	7195	28-out-05	3,3	60,4	48,0	892,0	69,9
6986	28-out-05	6,7	75,1	48,0	965,0	68,6	7091	28-out-05	4,7	90,2	48,0	1011,0	69,9	7196	28-out-05	3,3	60,4	48,0	892,0	69,9
6987	28-out-05	6,6	66,0	48,0	1004,0	68,6	7092	28-out-05	4,2	74,4	48,0	982,0	69,9	7197	28-out-05	3,3	60,4	48,0	892,0	69,9
6988	28-out-05	7,7	72,6	48,0	889,0	68,6	7093	28-out-05	6,2	75,7	48,0	981,0	69,9	7198	28-out-05	3,3	60,4	48,0	892,0	69,9
6989	28-out-05	6,9	74,9	48,0	998,0	68,6	7094	28-out-05	4,3	95,4	48,0	735,0	72,9	7199	28-out-05	3,3	60,4	48,0	892,0	69,9
6990	28-out-05	7,1	85,5	48,0	975,0	68,6	7095	28-out-05	4,3	96,0	48,0	981,0	69,9	7200	28-out-05	3,3	60,4	48,0	892,0	69,9
6991	28-out-05	6,7	83,2	48,0	959,0	68,6	7096	28-out-05	5,1	78,0	48,0	916,0	69,9	7201	28-out-05	3,3	60,4	48,0	892,0	69,9
6992	28-out-05	6,4	63,7	48,0	1042,0	78,5	7097	28-out-05	4,6	85,0	48,0	1012,0	69,9	7202	28-out-05	3,3	60,4	48,0	892,0	69,9
6993	28-out-05	7,1	80,0	48,0	992,0	68,6	7098	28-out-05	4,3	80,8	48,0	998,0	69,9	7203	28-out-05	3,3	60,4	48,0	892,0	69,9
6994	28-out-05	6,9	69,9	48,0	994,0	68,6	7099	28-out-05	5,1	66,0	48,0	983,0	69,9	7204	28-out-05	3,3	60,4	48,0	892,0	69,9
6995	28-out-05	8,1	74,6	48,0	931,0	68,6	7100	28-out-05	4,2	67,7	48,0	993,0	69,9	7205	28-out-05	3,3	60,4	48,0	892,0	69,9
6996	28-out-05	8,5	80,4	48,0	992,0	68,6	7101	28-out-05	3,8	81,1	48,0	936,0	69,9							
6997	28-out-05	9,0	85,4	48,0	984,0	68,6	7102	28-out-05	4,6	72,7	48,0	992,0	69,9							
6998	28-out-05	7,9	82,8	48,0	1009,0	68,7	7103	28-out-05	5,2	77,2	48,0	935,0	69,9							
6999	28-out-05	8,4	89,4	48,0	1000,0	68,6	7104	28-out-05	5,0	90,6	48,0	974,0	69,9							
7000	28-out-05	7,4	78,1	48,0	756,0	68,7	7105	28-out-05	4,8	75,7	48,0	962,0	69,9							
7001	28-out-05	6,7	89,9	48,0	1030,0	68,7	7106	28-out-05	6,5	77,8	48,0	1002,0	69,9							
7002	28-out-05	8,4	79,5	48,0	1031,0	68,6	7107	28-out-05	5,1	72,9	48,0	994,0	69,9							
7003	28-out-05	7,4	85,3	48,0	912,0	68,6	7108	28-out-05	3,8	73,5	48,0	921,0	72,8							
7004	28-out-05	7,4	75,7	48,0	996,0	68,6	7109	28-out-05	4,7	86,3	48,0	969,0	69,9							
7005	28-out-05	7,4	79,9	48,0	985,0	68,6	7110	28-out-05	4,6	68,0	48,0	946,0	72,8							
7006	28-out-05	5,8	74,5	48,0	1002,0	68,6	7111	28-out-05	6,0	79,8	48,0	992,0	72,8							
7007	28-out-05	5,6	87,9	48,0	935,0	68,7	7112	28-out-05	7,4	87,6	48,0	951,0	69,9							
7008	28-out-05	7,9	90,4	48,0	976,0	68,7	7113	28-out-05	4,1	76,6	48,0	970,0	73,6							
7009	28-out-05	7,4	90,1	48,0	958,0	68,7	7114	28-out-05	4,6	65,7	48,0	907,0	73,5							
7010	28-out-05	9,5	76,7	48,0	1002,0	68,6	7115	28-out-05	5,2	76,7	48,0	943,0	73,6							
7011	28-out-05	6,1	77,1	48,0	1002,0	68,6	7116	28-out-05	5,1	74,1	48,0	964,0	73,6							
7012	28-out-05	8,6	80,5	48,0	992,0	68,6	7117	28-out-05	4,8	99,9	48,0	966,0	73,6							
7013	28-out-05	6,5	92,9	48,0	1006,0	68,7	7118	28-out-05	4,8	65,4	48,0	969,0	73,6							
7014	28-out-05	6,4	81,0	48,0	985,0	68,6	7119	28-out-05	9,8	65,8	48,0	891,0	73,6							
7015	28-out-05	8,0	80,7	48,0	973,0	68,6	7120	28-out-05	5,0	80,3	48,0	951,0	73,6							
7016	28-out-05	7,0	87,0	48,0	977,0	68,7	7121	28-out-05	4,2	67,9	48,0	892,0	73,6							
7017	28-out-05	6,4	76,5	48,0	965,0	68,6	7122	28-out-05	5,5	75,3	48,0	925,0	73,7							
7018	28-out-05	6,5	88,7	48,0	999,0	68,7	7123	28-out-05	6,0	78,0	48,0	938,0	73,7							
7019	28-out-05	7,4	88,3	48,0	1049,0	68,7	7124	28-out-05	5,5	78,7	48,0	881,0	73,7							
7020	28-out-05	6,4	81,5	48,0	990,0	68,6	7125	28-out-05	4,2	62,1	48,0	825,0	73,6							
7021	28-out-05	6,1	68,6	48,0	927,0	68,6	7126	28-out-05	5,5	71,9	48,0	900,0	73,6							
7022	28-out-05	6,6	87,0	48,0	930,0	68,7	7127	28-out-05	5,7	63,0	48,0	862,0	73,6							
7023	28-out-05	5,6	76,7	48,0	1013,0	68,6	7128	28-out-05	5,0	85,0	48,0	864,0	73,7							
7024	28-out-05	7,4	90,5	48,0	988,0	68,6	7129	28-out-05	5,0	81,9	48,0	926,0	73,6							
7025	28-out-05	6,4	75,6	48,0	889,0	68,6	7130	28-out-05	5,3	67,3	48,0	920,0	73,6							

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