GOVERNO DO ESTADO

CEARÁ

AVANÇANDO NAS MUDANÇAS

GOVERNO DO ESTADO DO CEARÁ

SECRETARIA DOS RECURSOS HÍDRICOS - SRH

ELABORAÇÃO DO PROJETO EXECUTIVO DA TRANSPOSIÇÃO DO SISTEMA QUIXERAMOBIM PARA O RIACHO DO QUINIM MUNICÍPIO DE QUIXERABOBIM - CE

TOMO I - RELATÓRIO GERAL

FC

CONSULTORIA PROJETO E SERVIÇO AGROPECUÁRIO

FOLHA DE DADOS - GED/SRH

TIPO DE DOCUMENTO: Projeto

Identidade GED: 239101011A

Lote: 2505

Nº de Registro: 0210029

Autores: SRH / FC

Programa:

Título: Elaboração do projeto executivo da transposição do sistema Ruxeramobim para o riacho do Ruinim no município de Ruxeramobim - CE

Sub-Título 1: Relatório Geral

Sub-Título 2:

Nº de Páginas: 217 folhas

Volume: I

Tomo: I

Editor: FC

Data de Publicação (mês/ano): Dez./2000

Local de Publicação: Fortaleza

Localização da Obra

Tipo de Empreendimento:

☐ Barragem ☐ Açude	☐ Adutora ☒ Canal / Eixo de Transp. ☐ Outro
Rio / Riacho Barrado:	Fonte Hídrica: Rio Ruxeramobim

Bacia: Riacho Ruinim

Sub-bacia:

Municípios: Ruxeramobim

Distrito: Belém

Microregião: Sertão de Ruxeramobim

Estado: Ceará

GOVERNO DO ESTADO

CEARÁ
AVANÇANDO NAS MUDANÇAS

GOVERNO DO ESTADO DO CEARÁ
SECRETARIA DOS RECURSOS HÍDRICOS - SRH

ELABORAÇÃO DO PROJETO EXECUTIVO DA TRANSPOSIÇÃO DO SISTEMA QUIXERAMOBIM PARA O RIACHO DO QUINIM NO MUNICÍPIO DE QUIXERAMOBIM-CE

TOMO I

VOLUME I - RELATÓRIO GERAL

FC CONSULTORIA, PROJETOS E SERVIÇOS AGROPECUÁRIOS
MARIA DE FÁTIMA COELHO DE FIGUEIRÊDO

FORTALEZA
DEZEMBRO/2000

GOVERNO DO ESTADO

CEARÁ
AVANÇANDO NAS MUDANÇAS

GOVERNO DO ESTADO DO CEARÁ
SECRETARIA DOS RECURSOS HÍDRICOS - SRH

ELABORAÇÃO DO PROJETO EXECUTIVO DA TRANSPOSIÇÃO DO SISTEMA QUIXERAMOBIM PARA O RIACHO DO QUINIM NO MUNICÍPIO DE QUIXERAMOBIM-CE

TOMO I

VOLUME I - RELATÓRIO GERAL

FC CONSULTORIA, PROJETOS E SERVIÇOS AGROPECUÁRIOS

FORTALEZA
DEZEMBRO/2000

ÍNDICE

ÍNDICE

1. INTRODUÇÃO

1. INTRODUÇÃO

Desde o final do século XIX tem-se construído açudes para combater os efeitos das irregularidades temporais do regime de chuvas no semi-árido do Nordeste do Brasil, o que possibilita armazenar água na estação chuvosa para se utilizar no período seco Os reservatórios dos açudes são tradicionais, e indispensáveis á fixação do homem no interior, atendendo ás necessidades de água para abastecimento humano e de rebanhos, agricultura de vazantes, perenização de rios, irrigação, piscicultura, recreação, e lazer

Apesar de todos os benefícios para a população de sua área de influência, um importante potencial decorrente dos reservatórios não tem sido normalmente utilizado no Ceará transformação de energia Todo açude gera uma carga hidráulica pela elevação natural do nível da água do rio barrado, que pode ser transformada em energia elétrica ou hidráulica A geração de energia elétrica tem sido pouco utilizada por ser de pequena potencialidade, e necessitar de linhas de transmissão para transferi-la até os pontos de uso, tornando-a de viabilidade contestável na maioria dos casos

Nos reservatórios dos açudes a transformação de energia potencial em energia hidráulica ocorre por um processo natural A maioria dos reservatórios dispõe de galerias por onde escoam vazões com cargas que são dissipadas sem que realizem nenhum trabalho que não seja erodir as obras hidráulicas de dissipação, ou o leito natural dos córregos. Por que não aproveitar esta energia para o bombeamento de água até pontos estratégicos de usos com abastecimento humano ou irrigação?

A tecnologia de utilizar água para bombear água está totalmente dominada e vem sendo adotada em vários países e até mesmo no Brasil, que fabrica conjuntos padronizados, turbina e bomba, bombeando comumente vazões de 1 000 a 9 0000l/h atendendo alturas de elevação de até 260 m Por este procedimento a água armazenada no açude aciona uma turbina com a abertura gradual de registro instalado na turbina O eixo da turbina está acoplado ao eixo da bomba, e sua rotação irá aumentando na medida que o registro for aberto No período mais seco do ano, o equipamento permite trabalhar com o registro da turbina mais fechado

Maria de Fátima Coelho de Figueirêdo
Engª Agrônoma CREA 6262-D
Resp. Técnico

Para o funcionamento do sistema é necessário que passe pela turbina uma vazão, com uma carga hidráulica tal que produza energia suficiente (Q vezes H) necessária para acionar a bomba A carga disponível no reservatório é variável, assim como a descarga da galeria que dependem das condições operacionais e das demandas hídricas dos açudes Portanto a potência disponível no reservatório deve ser regulada de acordo com as necessidades da bomba projetada

O presente relatório trata do projeto de um conjunto turbina-bomba a ser executado na galeria do Açude Quixeramobim no município de Quixeramobim-Ce, cuja finalidade é aproveitar a energia hidráulica do reservatório para bombear água para atender as necessidades da população ao longo do Riacho Quinim, em termos de abastecimento humano, animal e de irrigação de quintais e hortas

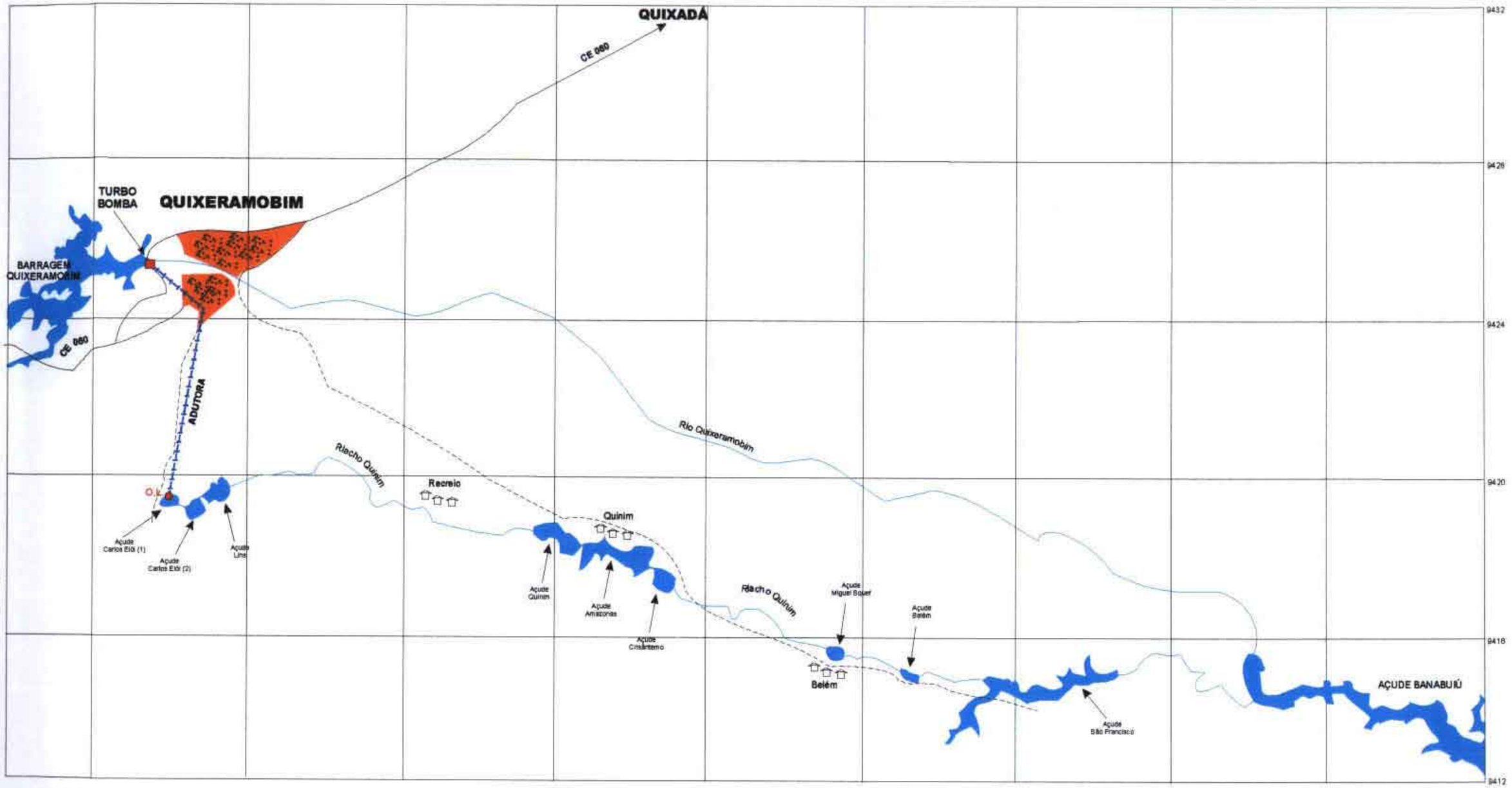
O projeto beneficiará 799 (setecentos e noventa e nove) famílias que habitam e sobrevivem da exploração agropecuária na bacia do referido riacho Este contingente totaliza aproximadamente 4.000 pessoas que serão beneficiadas com a perenização do curso de água sem a necessidade de utilizar energia elétrica, o que barateará bastante o custo operacional da água a ser consumida

2. LOCALIZAÇÃO E ACESSOS

2. LOCALIZAÇÃO E ACESSOS

A área do projeto localiza-se no município de Quixeramobim-Ce

Para se chegar até o local desloca-se de Fortaleza até a sede do município de Quixeramobim, obedecendo ao seguinte itinerário BR116/CE-359/CE-060, percorrendo uma distância de 201 km Partindo do centro da cidade (sede) mais precisamente na antiga Estação Ferroviária – RFFSA, atravessa-se o Rio Quixeramobim pela Ponte da Maravilha, considerando-se aí o "ponto zero" do percurso até o encontro dos riachos Quinim e Malacacheta com o rio Quixeramobim para, juntos, desaguarem na montante do Banabuiu A estrada de terra, após a Ponte da Maravilha, é denominada de estrada do Belém (distrito) e se inicia no cruzamento da linha férrea na localidade do Alto da Vitória (perímetro urbano) Nesta estrada percorre-se pela margem esquerda do Quinim um total de 19.4 km até cruzar o próprio Quinim através de uma passagem molhada, na localidade de Crisântemo Daí em diante a estrada passa para a margem direita do Quinim permanecendo assim até o encontro das águas, mais precisamente nas terras das fazendas Durué I e II, totalizando 39.2 km



LEGENDA

- Açude
- Rios
- O.L. Obra de Lançamento no Riacho Quinim
- Turbo Bomba
- Estrada Quixeramobim/Belém
- Construções
- Município
- Traçado Adutora
- CE-060

MAPA DE LOCALIZAÇÃO

000011

3. DEMOGRAFIA

3. DEMOGRAFIA

A população total residente no Município segundo a contagem da população pelo IBGE em 1996, foi de 55 690 habitantes, representando 0,80% de todo o Estado A densidade demográfica (hab/km²) registrada em 1996 foi de 17,31

A taxa geométrica de crescimento anual em 1996 foi "negativa", ou seja, - 0,83% em todo o Município de Quixeramobim

Cabe ressaltar que este índice é muito superior e preocupante na zona rural onde em 1999 registrou-se - 2,18% Daí a necessidade de urgente implantação de projetos que possam fixar as famílias no campo.

4. SITUAÇÃO ATUAL

4. SITUAÇÃO ATUAL

O riacho Quinim não garante o suprimento de água para a população localizada em suas margens Mesmo o abastecimento humano não pode ser garantido em épocas de estiagens Já a economia que se desenvolve na área é frágil e muito dependente da água

5. A SOLUÇÃO PROPOSTA

5. A SOLUÇÃO PROPOSTA

A solução apresentada neste projeto trata-se de um sistema adutor constituido de uma estação de bombeamento com turbobomba e uma adutora partindo da galeria do Açude Quixeramobim até o divisor de águas do Riacho Quinim Esta adução fornecerá uma vazão de aproximadamente 27 l/s vencendo um desnível de cerca de 45 m, sem a utilização de energia elétrica O bombeamento se fará por uma turbina acoplada diretamente á bomba

A população que poderá ser beneficiada no final de plano é de cerca de 5 400 pessoas que habitam ao longo do riacho

O sistema proposto será detalhado nos ítens seguintes

5.1. A Fonte Hídrica

A fonte hídrica para o projeto é o reservatório do Açude Quixeramobim

A barragem vertedoura do Quixeramobim, barra o rio de mesmo nome na sede daquele município O açude foi construido com uma capacidade de 54 milhões de metros cúbicos de água controlando uma bacia hidrográfica de 1 865 km² Á montante deste reservatório. situa-se açude Fogareiro com uma capacidade de 119 milhões de metros cúbicos que também é responsável pela perenização do rio Quixeramobim, e consequentemente controla os níveis e vazões no Quixeramobim

Os dados adotados no projeto foram

Fonte Hídrica - Açude Quixeramobim
Capacidade de acumulação – 54 000 000 de m³
Cota do talvegue – 87,00
Cota da soleira vertente – 102,00
Altura máxima de água (até a soleira) – 15 m
Cota da Tomada de água – 89,00
Nível da água quando da elaboração do projeto – 96.00

Galeria – Duas tubulações de aço uma em cada margem do riacho com diâmetro de 600 mm, com descarga controlada á montante com comportas, e a jusante com válvula dispersora

Descarga regularizada com garantia de 90 % - 1,495 m^3/s

- DADOS HIDROLÓGICOS

Os dados hidrológicos utilizados no projeto são os disponíveis pela Companhia de Gestão dos Recursos Hídricos do Estado do Ceará – COGERH no Plano de Gerenciamento da Bacia do Jaguaribe Neste plano foram simulados os reservatórios envolvidos no projeto de acordo com as informações transcritas a seguir

Açude Quixeramobim

O açude Quixeramobim barra o rio Quixeramobim, no município de Quixeramobim O açude foi construído com uma capacidade de 54.0 milhões de m^3, controlando uma bacia de 1 865.0 Km^2

O reservatório foi simulado considerando-se os seguintes dados

Vazões afluentes – com uma série histórica de 84 anos. obtida por regionalização de lâmina com o rio Quixeramobim em Quixeramobim.

Evaporação do lago – obtidas a partir do tanque classe A em Quixeramobim com um fator de tanque de 0.70,

Precipitação sobre o lago – obtidas através da participação média no posto mais próximo do açude Quixeramobim (3801441 – Quixeramobim) utilizando-se dados do P E R H

Um resumo da evaporação e precipitação sobre o lago são apresentados a seguir

QUIXERAMOBIM (POSTO MAIS PRÓXIMO = 3801441)						
MÊS	EVAP. DO LAGO (mm)	PRECIP. (mm)	E - P (mm)	ALFA*	EVAP DE PICHÉ** QUIXERAMOBIM (mm)	EVAP. DE TANQUE** QUIXERAMOBIM (mm)
JAN	172 99	61 90	111 09	0 101	189	247
FEV	125 30	101 50	23 80	0 022	136 9	179
MAR	94 18	186 40	- 92 22	- 0 084	102 9	135
ABR	74 87	188 80	- 113 93	- 0 103	81 8	107
MAI	76 52	124 90	- 48 38	- 0 044	83 6	109
JUN	99 03	56 60	42 43	0 039	108 2	141
JUL	136 38	30 40	105 98	0 096	149	195
AGO	189 28	10 80	178 48	0 162	206 8	270
SET	225 07	3 50	221 57	0 201	245 9	322
OUT	258 39	1 90	256 49	0 233	282 3	369
NOV	220 86	5 00	215 86	0 196	241 3	316
DEZ	221 32	20 90	200 42	0 182	241 8	316
TOTAL	1 894 20	792 60	1 101 60	1 0	2 069 5	2 706

RESERVATÓRIO QUIXERAMOBIM

CAPACIDADE: 54.00 hm^3

Garantia (%)	80	90	95	98
CV	1.43	1.38	1.35	1.31
Deflúvio Médio	515.27	545.29	563,11	581,61
Vol Regularização Anual (hm^3)	65,505	47.172	36.260	25.251
Vazão Regularizada (m^3 / s)	2,077	1.495	1.149	0.800
Falha Máxima (meses)	27	20	16	11
Freqüência da Falha Anual (%)	50.00	29,49	16.67	6,41
Média das Sangrias (hm3 / ano)	456.32	496.45	521,55	549,13
Médias das Evaporações (hm3 / ano)	5.52	6.52	7,25	7.97

Açude Fogareiro

O açude Fogareiro barra o rio Quixeramobim, no município de Quixeramobim O açude foi construído com uma capacidade de 118,81 milhões de m^3, controlando uma bacia de 4 667.75 Km^2

O reservatório foi simulado considerando-se os seguintes dados

Vazões afluentes – com uma série histórica de 85 anos, obtida por regionalização de lâmina com o rio Quixeramobim em Quixeramobim,

Evaporação do lago – obtidas a partir do tanque classe A em Quixeramobim com um fator de tanque de 0,70,

Precipitação sobre o lago – obtidas através da participação média no posto mais próximo do açude Fogareiro (3800488 – Manituba) utilizando-se dados do P E.R H

Um resumo da evaporação e precipitação sobre o lago são apresentados a seguir·

FOGAREIRO (POSTO MAIS PRÓXIMO = 3800488)						
MÊS	EVAP. DO LAGO (mm)	PRECIP. (mm)	E - P (mm)	ALFA*	EVAP. DE PICHÉ** QUIXERAMOBIM (mm)	EVAP. DE TANQUE** QUIXERAMOBIM (mm)
JAN	172 99	55 90	117 09	0 097	189	247
FEV	125 30	87 30	38 00	0 032	136 9	179
MAR	94 18	152 50	- 58 32	- 0 048	102 9	135
ABR	74 87	157 00	- 82 13	- 0 068	81 8	107
MAI	76 52	103 20	- 26 68	- 0 022	83 6	109
JUN	99 03	59 50	39 53	0 033	108 2	141
JUL	136 38	30 00	106 38	0 088	149	195
AGO	189 28	5 90	183 38	0 152	206 8	270
SET	225 07	4 60	220 47	0 183	245 9	322
OUT	258 39	4 30	254 09	0 211	282 3	369
NOV	220 86	8 80	212 06	0 176	241 3	316
DEZ	221 32	18 80	202 52	0 168	241 8	316
TOTAL	1 894 20	687 80	1 206 40	1 0	2 069 5	2 706

000020

RESERVATÓRIO FOGAREIRO

CAPACIDADE: 118,81 hm^3

Garantia (%)	80	90	95	98
CV	1.31	1,30	1,29	1,28
Deflúvio Médio	484,04	492.99	500.44	503.17
Vol Regularização Anual (hm^3)	108.697	72.827	59,229	44,644
Vazão Regularizada (m^3 / s)	3.446	2,309	1,878	1,415
Falha Máxima (meses)	24	20	17	10
Freqüência da Falha Anual (%)	47.44	29,49	16,67	5.13
Média das Sangrias (hm3 / ano)	376.60	406.59	424.38	442,87
Médias das Evaporações (hm3 / ano)	19,83	21.07	20.25	17.05

De acordo com os resultados da simulação, o açude Quixeramobim deverá operar com uma descarga regularizada de 1,495 m^3/s (garantia de 90 %) Este valor é bem superior á vazão a ser utilizada no projeto que é de cerca de 30 l/s (20 % do total regularizado) Constitui-se também no limite que pode ser turbinado para acionar as bombas com uma garantia aceitável em todo o ano

5.2. Estimativa das Demandas

O sistema projetado deverá garantir prioritariamente os consumos de abastecimento humano das famílias ao longo do riacho Quinim Secundariamente deverão ser atendidas demandas com a irrigação de até 37.5 ha, desde que esta irrigação apresente alto rendimento Na estimativa dos consumos considerou-se o seguinte

Consumo Humano

- Consumo per capita (q) 120 l/dia
- Número de famílias abastecidas em 2001 (f) 799
- Estimativa do número de pessoas por família (p) 5
- Coeficiente do dia de maior consumo (k1) 1,20
- Taxa de crescimento populacional (r) 1% a a
- Alcance do projeto (n) 30 anos

000021

$$P_{2031} = P_{2001}\,(1+r)^n$$

$$P_{2031} = P_{2001}\,(1+0{,}01)^{30}$$

$$P_{2031} = 3995 \text{ pessoas}$$

$$Q_{2031} = \frac{K_1 \times P_{2031} \times q}{86\,400}$$

$$Q_{2031} = 8{,}97 \text{ l/s}$$

Outros consumos

Os outros consumos correspondem ás demandas de hortas e quintais e pequena irrigação que foram estimados em 37.5 ha Com um consumo específico para irrigação de 15 000 m³/ano, estes outros consumos totalizam 18.00 l/s

5.3. Potencial de Geração de Energia

O potencial de geração de energia, ou mais precisamente, de transformação da energia hidráulica armazenada no reservatório é calculado pelo produto da carga hidráulica sobre a turbina, pela vazão turbinada, multiplicada pelo rendimento.

A carga hidráulica é obtida pela diferença entre a lâmina de água sobre a entrada da galeria e as perdas de carga na galeria até a entrada da turbina No caso do Açude Quixeramobim a lâmina de água varia de zero, quando a cota da água do reservatório coincidir com o eixo da entrada na galeria (cota 89), até 13 m com o reservatório cheio (cota 102)

A vazão turbinada para este projeto deverá ser derivada da galeria e corresponde a um valor máximo de 60% de descarga regularizada do reservatório com garantia de 90% Este valor é de aproximadamente 840 l/s

O rendimento de uma turbina nas condições de funcionamento semelhantes á deste projeto é de 75%

Para o projeto foi adotada uma carga bruta mínima de 6.0 m Neste caso a potência para uma vazão turbinada de 840 l/s é de aproximadamente 50 cv

5.4. Vazão de Projeto da Adutora

Será a soma de todos os consumos calculados no capítulo que totalizam 26,97 l/s

6. DIMENSIONAMENTO DA ADUTORA

6. DIMENSIONAMENTO DA ADUTORA

6.1. *Dados Básicos da Adução*

- Tipo recalque
- Cota do Terreno no início 185,54
- Cota máxima do terreno natural – 235,32 (EST 151)
- Cota do terreno no final 224,00
- Extensão 7 380 m
- Cota do nível mínimo na captação – Açude Quixeramobim: 78,00
- Cota do nível máximo na captação – Açude Quixeramobim 95,00
- Vazão de dimensionamento Q = 26,97 l/s
- Tempo de funcionamento diário h = 24h
- Potência máxima das bombas (funcionando simultaneamente nas piores condições) 50 cv

6.2. Estimativa do Diâmetro

O diâmetro da adutora foi estimado a partir de um estudo econômico de diversos diâmetros, em que se considerou os custos de implantação, operação, manutenção da adutora, e os benefícios da mesma Estes benefícios correspondem as receitas com a produção da água O estudo foi realizado sem maiores sofisticações no caráter econômico, e visando apenas concluir pelo diâmetro mais adequado ás condições do projeto Nos cálculos considerou-se 20 anos de operação com uma taxa de juros anuais de 10% Para se escolher os diâmetro a serem comparados utilizou-se a formulação seguinte, usual neste tipo de projeto

$$D = 1{,}2\, X^{4} \sqrt{Q}$$

Onde

D = Diâmetro econômico em m,

X = h/24,

h = número de horas de operação por dia = 24

Q = vazão em m^3/s.

Donde obtêm-se D = 0,197 m. adotando-se os diâmetros comercias mais próximos, 150 mm, 200 mm e 250 mm

A utilização de um diâmetro menor diminuiria o custo da tubulação mas reduziria a garantia do sistema já que o mesmo funcionaria com cargas maiores (o reservatório mais cheio) . para compensar as perdas de cargas mais elevadas ocasionadas pelo estreitamento da seção hidráulica

No quadro 6 1 pode-se observar os cálculos das perdas de carga para os diferentes diâmetros adotados No quadro 6 2 encontra-se a estimativa do diâmetro econômico da adutora

O estudo concluiu pela adoção de um diâmetro interno de 200 mm, que conduz a perdas de carga compatíveis com as cargas brutas nas turbinas Para D = 150 mm a carga disponível e a descarga turbinável no açude Quixeramobim seriam insuficientes para o funcionamento de uma turbina capaz de fazer funcionar equipamentos de bombeamento necessários

Quadro 6.1
Adutora de Quinim
Dimensionamento Hidráulico das alternativas de cada trecho

Trecho	*Total*	*Total*	*Total*
Q (l/s) =	*26,97*	*26,97*	*26,97*
k (mm) =	*0,00006*	*0,00006*	*0,00006*
D (mm) =	*150*	*200*	*250*
V (m/s) =	*1,53*	*0,86*	*0,55*
n '(m2/s) =	*0,000001*	*0,000001*	*0,000001*
Re =	*229044,586*	*171783,439*	*137426,752*
f (m/m) =	*0,01804206*	*0,01804714*	*0,01827028*
1/(raiz f)	*7,44486779*	*7,44381954*	*7,39822347*
2o termo	*0,000*	*0,000*	*-0,001*
h (Univ) (m/m) =	*0,014294*	*0,003393*	*0,001126*
J (Hazen) (m/m)=	*0,01442605*	*0,00355382*	*0,00119879*
C =	140	140	140

Quadro - 6.2 -Planilha de Cálculo de Alternativas da Adutora de Quixeramobim para o riacho Quinim

Alternativa	D = 150 mm	D = 250 mm	D = 200 mm
Diâmetro (m)	0,150	0,250	0,200
Vazão (m3/s)	0,027	0,027	0,027
Velocidade de escoamento (m/s)	1,527	0,550	0,859
Perda de carga localizada	0,89	0,116	0,28
Perda de carga unitária	0,01443	0,00120	0,00355
Extensão(m)	7380,00	7380,00	7380,00
Desnível geométrico (m)	52,00	52,000	52,00
Altura manométrica total	164,68	61,405	79,82
Horas de funcionamento/dia	24,00	24,000	24,00
Dias de funcionamento/ano	365	365,000	365
Potência instalada cv	100,22	37,368	48,58
Potência consumida kwh	877891,37	327345,634	425518,13
Custo da demanda elétrica (R$/kw)	4602,56	1716,188	2230,88
Custo do consumo elétrico R$/kwh)	39505,11	14730,554	19148,32
Custo unitário da adutora r$/m	43,91	69,25	52,30
Custo total da adutora R$	324055,80	511065,000	385990,00
Custo da estação elevatória	35000,00	20000,000	20000,00
Custo anual de manutenção R$	6000,00	6000,000	6000,00
VPL manutenção R$	426594,63	191101,680	233094,43
VPL do sistema R$ (10%,20 anos)	1109706,23	1233231,680	1025074,43

Nos cálculos das perdas de carga utilizou-se a metodologia de Williams e Hazen, com C = 140, indicado para tubulações de PVC rígido

Os benefícios com a adutora foram calculados pelo produto entre a tarifa da água e o volume aduzido O volume aduzido corresponde ao volume consumido vezes a garantia de fornecimento ou seja, o percentual de permanência no nível necessário

Deste estudo concluiu-se que o diâmetro econômico da adutora é de 200 mm Nele pode-se verificar que para o diâmetro de 200 mm o Valor Presente Líquido do empreendimento é o menor, e que com este diâmetro as perdas de carga não são tão elevadas, o que permite o funcionamento da turbina compatível com as condições de geração de energia do reservatório

6.3. Curvas Características da Adutora

Estas curvas deverão ser utilizadas para escolher os equipamentos de bombeamento a serem adquiridos para o sistema

Na sua determinação considerou-se a condição extrema de níveis d'água no reservatório que são determinantes das alturas manométricas máximas, quando o açude estiver com a sua cota mínima, e mínima, quando o reservatório estiver cheio, e a altura á bombear é mínima O sistema deverá atender a todas as condições operacionais entre estes dois níveis citados anteriormente

No cálculo das perdas de carga na adutora considerou-se as perdas na galeria, e na tubulação de recalque (D = 200 mm) A estimativa das perdas de carga por atrito baseou-se na Fórmula Universal das Perdas de Carga, com f calculado segundo Colebrook, e k adotado em 0,6 mm, o que é indicado para tubulações de PVC rígido As perdas localizadas foram calculadas pelo Método dos Comprimentos Virtuais

No quadro 6 3 e na figura 6 1 pode-se encontrar respectivamente a planilha de cálculo das perdas de carga na adutora para diferentes vazões, e as curvas características da adutora do Açude Quixeramobim para o riacho Quinim

Quadro 6.3

Planilha da cálculo da curva característica da adutora de Quixeramobim /Riacho Quinim

Diâmetro (m)	0,2	Dbarrilete (m)	0,1
Extensão (m)	7380	N tub. Barrilete	2
L perdas (m)	26,4	L barrilete (m)	10
DG max. (m)	47		
DG min. (m)	55		
k (mm)	0,00006		

Q (m3/s)	Hg max	Hg min	Q b(m3/s)	Vb (m/s)	Reb	f b	0,00	hu b	Hf b	V (m/s)	Re	f	0	hu	hf	Htotal	Hman max	H man min
0	47,00	55,00	0,000	0,00	0,00	0,100		0,00	0,00	0,00	0,00	0,030	0	0,00	0,00	0,00	47,00	55,00
0,002	47,00	55,00	0,001	0,13	12738,85	0,030	0,00	0,00	0,00	0,06	12738,85	0,030	0	0,03	0,03	0,03	47,03	55,03
0,004	47,00	55,00	0,002	0,25	25477,71	0,026	0,00	0,00	0,01	0,13	25477,71	0,025	0	0,10	0,77	0,78	47,78	55,78
0,006	47,00	55,00	0,003	0,38	38216,56	0,024	0,00	0,00	0,02	0,19	38216,56	0,023	0	0,21	1,59	1,61	48,61	56,61
0,008	47,00	55,00	0,004	0,51	50955,41	0,023	0,00	0,00	0,03	0,25	50955,41	0,022	0	0,36	2,68	2,71	49,71	57,71
0,01	47,00	55,00	0,005	0,64	63694,27	0,022	0,00	0,00	0,05	0,32	63694,27	0,021	0	0,54	4,02	4,06	51,06	59,06
0,012	47,00	55,00	0,006	0,76	76433,12	0,021	0,00	0,01	0,06	0,38	76433,12	0,020	0	0,76	5,60	5,67	52,67	60,67
0,014	47,00	55,00	0,007	0,89	89171,97	0,021	0,00	0,01	0,09	0,45	89171,97	0,020	0	1,00	7,44	7,52	54,52	62,52
0,016	47,00	55,00	0,008	1,02	101910,83	0,021	0,00	0,01	0,11	0,51	101910,83	0,019	0	1,28	9,51	9,62	56,62	64,62
0,018	47,00	55,00	0,009	1,15	114649,68	0,020	0,00	0,01	0,14	0,57	114649,68	0,019	0	1,60	11,83	11,97	58,97	66,97
0,02	47,00	55,00	0,010	1,27	127388,54	0,020	0,00	0,02	0,17	0,64	127388,54	0,019	0	1,94	14,38	14,55	61,55	69,55
0,022	47,00	55,00	0,011	1,40	140127,39	0,020	0,00	0,02	0,20	0,70	140127,39	0,019	0	2,32	17,17	17,37	64,37	72,37
0,024	47,00	55,00	0,012	1,53	152866,24	0,020	0,00	0,02	0,24	0,76	152866,24	0,018	0	2,73	20,20	20,44	67,44	75,44
0,026	47,00	55,00	0,013	1,66	165605,10	0,020	0,00	0,03	0,27	0,83	165605,10	0,018	0	3,17	23,46	23,74	70,74	78,74
0,028	47,00	55,00	0,014	1,78	178343,95	0,019	0,00	0,03	0,32	0,89	178343,95	0,018	0	3,64	26,96	27,28	74,28	82,28
0,03	47,00	55,00	0,015	1,91	191082,80	0,019	0,00	0,04	0,36	0,96	191082,80	0,018	0	4,14	30,69	31,05	78,05	86,05
0,032	47,00	55,00	0,016	2,04	203821,66	0,019	0,00	0,04	0,41	1,02	203821,66	0,018	0	4,76	35,29	35,69	82,69	90,69
0,034	47,00	55,00	0,017	2,17	216560,51	0,019	0,00	0,05	0,46	1,08	216560,51	0,018	0	5,25	38,85	39,31	86,31	94,31

Qs (m3/s) 0,0135 Ds (m) = 0,116 0 0,107

Qr (m3/s) 0,0135 Dr (m) = 0,116 0,093

hs min (m) = 0,39

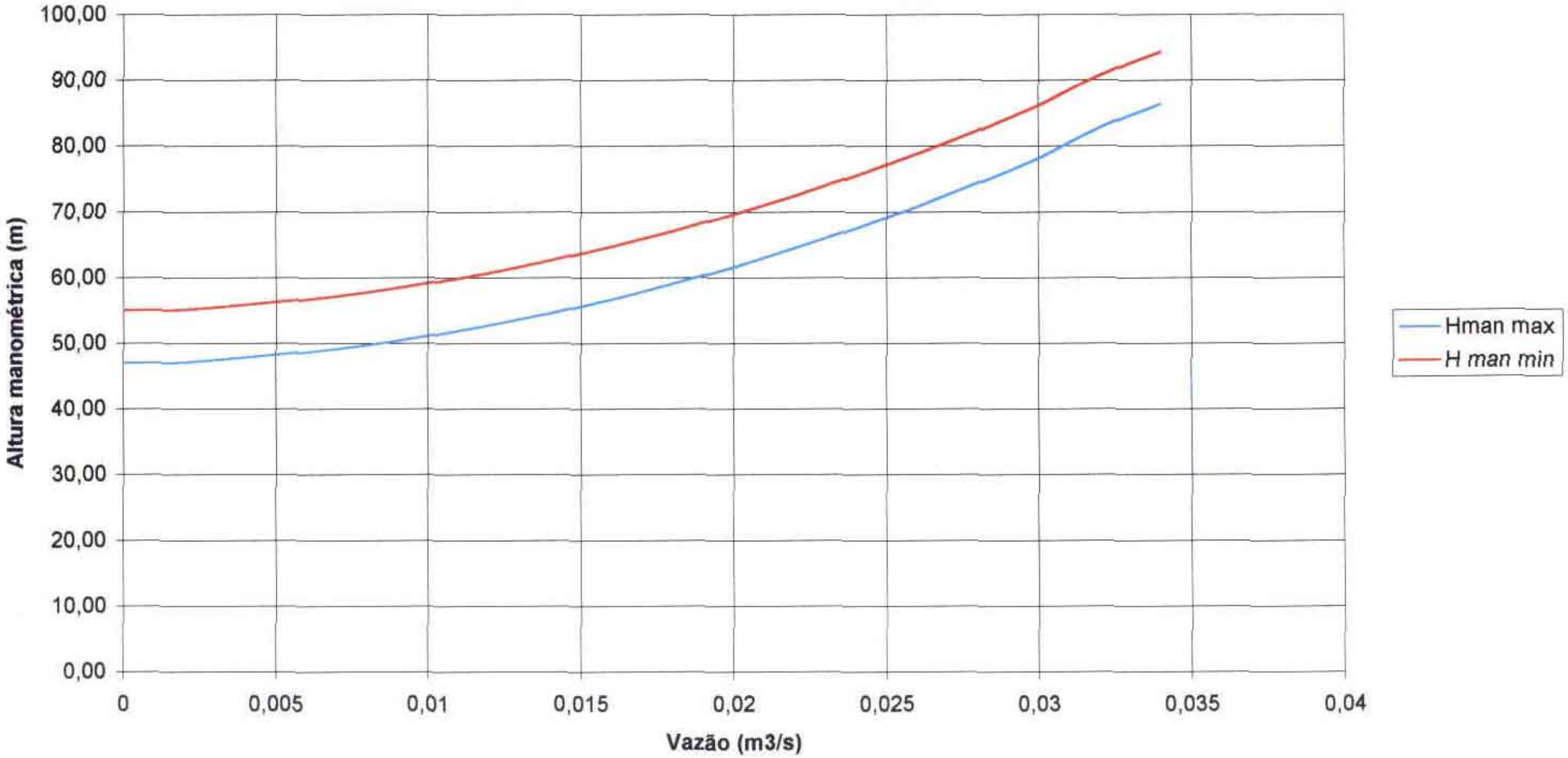
s de carga localizadas

Peças	Quantidad	D	CV	CVT (m)
Ampliação	1	0,1	12	1,2
Curva de 90	3	0,1	30	9
Redução	1	0,1	6	0,6
Válvula de pé c	0	0,1	250	0
Válvula de rete	1	0,1	100	10
Registro de gav	2	0,1	8	1,6
Curva de 45	2	0,1	20	4
Total				26,4

000030

Quadro 6-3

Figura 6.1
Curva Característica da Adutora Quixeramobim/Quinim
D=200 mm L=7380 m



6.4. Análise dos Transientes Hidráulicos

Os transientes hidráulicos na adutora foram simulados com a utilização de um modelo computacional elaborado por Rodrigo Neiva em tese de mestrado aprovada pela Universidade Federal do Ceará – UFC Este modelo baseia-se no Método das Características

Os dados de entrada para o Modelo estão resumidos nas planilhas PL 1, PL 2, PL 3 e PL 4 Os resultados são apresentados a seguir As tubulações a serem utilizadas no projeto deverão suportar as pressões máximas e mínimas normais e as envoltórias mostradas a seguir

Características dos sub-sistemas adutores

Planilha PL 01

Característica da Estação Elevatória												
Denominação	**Q (l/s)**	**Q (m3/h)**	**Quant. Conj.**	**Q/conjunto (m3/h)**	**H man (mca)**	**Bomba escolhida**	**Rotação (rpm)**	**Eficiência (%)**	**BHP (hp)/conj**	**D rotor (mm)**	**MI (kg.m2)**	**NPSH r (m)**
EE - Quinim	26,97	97,09	2,00	48,55	75,00	MEGANORM 40-200	3500	0,64	21,07	199,00	0,04	3,70

Planilha PL 02

Característica da Linha de Recalque						
Denominação	**Início**	**Final**	**Extensão**	**DN (mm)**	**DI (mm)**	**f**
ADT Quinim	Galeria Quixeram	Riach. Quinim	7380,00	200,00	204,20	0,018

Planilha PL 03

Cálculo da Celeridade										
Material	**DN(mm)**	**Di (mm)**	**e (mm)**	**n**	**&**	**E**	**k**	**Ro**	**C (m/s)**	**C (m/s)**
PVC 1,0 MPA	200,00	204,20	8,90	0,40	19,27	2,50	18	1000,00	460,94	460,94

Característica da adutora ADT AB

Planilha PL 04

Características da adutora do Quinim									
Estaca	Dist Parc (m)	Dist Acum (m)	Cota TN	Vazão (l/s)	DN (mm)	DI (mm)	f	C (m/s)	Material
0	0	0	185,535	26,97	200	204,2	0,018	460,94	PVC 1 MPA
38	760	760	209,712	26,97	200	204,2	0,018	460,94	PVC 1 MPA
59	420	1180	188,441	26,97	200	204,2	0,018	460,94	PVC 1 MPA
73	280	1460	206,473	26,97	200	204,2	0,018	460,94	PVC 1 MPA
115	840	2300	205,374	26,97	200	204,2	0,018	460,94	PVC 1 MPA
151	720	3020	235,32	26,97	200	204,2	0,018	460,94	PVC 1 MPA
196	900	3920	233,425	26,97	200	204,2	0,018	460,94	PVC 1 MPA
250	1080	5000	234,119	26,97	200	204,2	0,018	460,94	PVC 1 MPA
300	1000	6000	227,89	26,97	200	204,2	0,018	460,94	PVC 1 MPA
342	840	6840	225,49	26,97	200	204,2	0,018	460,94	PVC 1 MPA
350	160	7000	220	26,97	200	204,2	0,018	460,94	PVC 1 MPA
369	380	7380	218	26,97	200	204,2	0,018	460,94	PVC 1 MPA

7. DESCRIÇÃO DO SISTEMA PROPOSTO

7. DESCRIÇÃO DO SISTEMA PROPOSTO

7.1. Generalidades

O sistema proposto tem por objetivo fornecer água bruta para a perenização do Riacho Quinim beneficiando uma população estimada no final de plano em 5 400 pessoas A água a ser fornecida deverá atender além das necessidades humanas, o dessedentamento de animais, e a irrigação de fruteiras e pequenas hortas para a comunidade beneficiada

7.2. Captação

A captação de água do projeto deverá ser feita a partir de uma derivação da tomada de água do açude Quixeramobim

A tubulação de derivação da tomada d'água deverá ser de aço com diâmetro de 0,90 metros, espessura 5/16" polegada formando um ângulo de 90° com a tubulação de tomada Deverá ser implantada entre a tubulação da galeria existente e a válvula dispersora que será remanejada com este objetivo O controle a montante deverá permitir esta operação

O desenho de projeto 01/09 mostra esta derivação

A tubulação de derivação projetada terá uma extensão máxima desde o Tê de derivação até o início da estação elevatória de 9,50 m podendo variar quando da execução da obra, de acordo com as condições locais de modo a diminuir o seu comprimento Seu eixo deverá estar nivelado na cota 188.00 m

7.3. Estação Elevatória

A estação elevatória prevista é equipada com dois conjuntos turbobombas sendo cada um projetado para bombear com a carga hidráulica do açude uma vazão de 13,50 l/s até o divisor de águas dos rio Quixeramobim e riacho Quinim

O piso da estação está previsto na cota 184,00 A edificação será executada em corte de até 4 m As condições de proteção contra os efeitos das chuvas devem ser observados quando da construção O terrapleno da base da estação terá uma declividade de 2% no sentido do leito do Rio Quixeramobim Os taludes dos cortes serão de h=1,5:v=1 quando em solo, e de h= 0,7 v=1 quando em rocha

As turbinas deverão funcionar com cargas brutas que poderão variar de um mínimo de 6 (reservatório na sua cota mínima operacional) até 14 m (reservatório sangrando), e com uma vazão turbinada de 420 l/s por turbobomba

As bombas deverão ser centrífugas de eixo horizontal devidamente acopladas ás turbinas dimensionadas para bombear, nas condições da curva do sistema uma vazão de 26.97 l/s quando associadas em paralelo Estima-se em uma potência no eixo da bomba de aproximadamente 25 cv

Deverá ser projetado e fornecido pelo(s) fabricante(s) das turbobombas os dispositivos de acoplamento e ajuste de rotação entre a bomba e a turbina

Foram previstos registros de gaveta para controle de vazões na entrada da turbina (D=700mm), e na saída das bombas (D=100mm) Dispositivos de medição e controle de vazões foram projetados para permitir o perfeito funcionamento do sistema

As tubulações na casa de força poderão ser de aço soldado ou de ferro com flanges PN 10, a critério do construtor, desde que atenda as condições de projeto

Detalhes da estação projetada podem ser vistos no desenho de projeto 02/09

7.4. Tubulação da Adutora

A tubulação da adutora tem uma extensão de 7 380,00 de acordo com plantas e perfis nos desenhos 05/09 a 06/09

000037

Esta tubulação poderá ser de qualquer material disponível no mercado convencional (PVC, PVC com fibra de vidro, Ferro dúctil etc) desde que atenda as seguintes condições

A tubulação será compatível com a instalação em valas retangulares com recobrimento mínimo de 0,80 m e largura de fundo de 0,60 m (desenhos) Poderá ser executado um colchão de areia de 10 cm de espessura quando o material do fundo da vala for pedregulhoso Nas passagens por áreas alagáveis, indicadas nos desenhos de projeto a tubulação será envelopada com areia limpa e concreto simples de acordo com desenho 05/09

O diâmetro interno da tubulação será de 200 mm, ou que seja coerente com as condições da curva característica do desenho 6 1 para uma vazão operacional total de 26.97 l/s, e mínima de 13,5 l/s

A pressão de serviço mínima da tubulação será de 1,0 Mpa

As juntas entre tubos serão elásticas, e espaçadas de no máximo 12m

7.5. Peças e Conexões

Foram previstas curvas horizontais com ângulo mínimo de 22°30' nos locais indicados nos desenhos de projeto Curvas com ângulos menores deverão ser adaptadas nas juntas elásticas

Nos pontos altos da tubulação foram projetadas ventosas de tríplice função de ferro fundido com flanges DN = 50 mm para possibilitar a eliminação do ar Para facilitar a manutenção das mesmas previu-se registros de gaveta de ferro fundido com flanges que podem ser fechados para que as ventosas possam ser retiradas

Nos pontos baixos da linha adutora projetou-se registro de descarga de ferro fundido com flanges DN = 50 mm para propiciar o esvaziamento e limpeza da tubulação quando necessários (desenho 04/09)

000038

7.6. Caixas de Proteção

Nos locais onde forem instalados registros e ventosas existirão caixas acessíveis de acordo com o desenho de projeto 04/09 A critério do construtor, estas caixas poderão ser pré-moldadas e com dimensões adaptadas, desde que não aumente o custo da obra, e que atenda ás condições necessária á operação e manutenção do sistema

7.7. Blocos de Ancoragem

Em todos os locais de possíveis mudanças de sentido do fluxo hidráulico (curvas, tês, registros e tampões), serão executados blocos de ancoragem de concreto simples de acordo com os detalhes de projeto do desenho 03/09

8. SÍNTESE DO SISTEMA PROJETADO

000040

8. SÍNTESE DO SISTEMA PROJETADO

Nos desenhos de projeto encontram-se os detalhes do sistema projetado cujas principais características são resumidas a seguir

Manancial Açude Quixeramobim

Tipo de captação: Turbina acoplada à bomba centrífuga de eixo horizontal

Cota do piso da estação elevatória: 184,00

Cota do terreno natural na estação elevatória 185,00 a 188,00

Descarga regularizada pelo reservatório com 90% de garantia 1495 l/s

Número de turbinas 02

Cota mínima operacional das turbinas 78,00

Vazão turbinada total 430 l/s (860 l/s por turbina)

Carga bruta mínima 6,0 m

Potência aproximada de cada turbina 25 c v

Carga Bruta Máxima· 15,00 m

Vazão da adutora· 26,97 l/s

Número de equipamentos de bombeamento 02

Vazão aproximada por bomba. 13. 45 l/s

Diâmetro da tubulação de sucção de cada bomba 100 mm

Diâmetro da tubulação de recalque de cada bomba 100 mm

Número de pessoas beneficiadas: 5.385 pessoas

Altura manométrica máxima para Q = 26,97 l/s· 80 mca (figura 6 1)

Altura manométrica mínima para Q = 26.97 l/s 72 mca (figura 6 1)

Diâmetro da galeria = 600 mm

Diâmetro da tubulação de aço e= 5/16" na entrada na turbina = 700 mm

Diâmetro da adutora de recalque= 200 mm

Extensão da adutora = 7 380 m

Material da tubulação na estação elevatória Ferro dúctil série k7, ou aço com pressão de serviço compatível

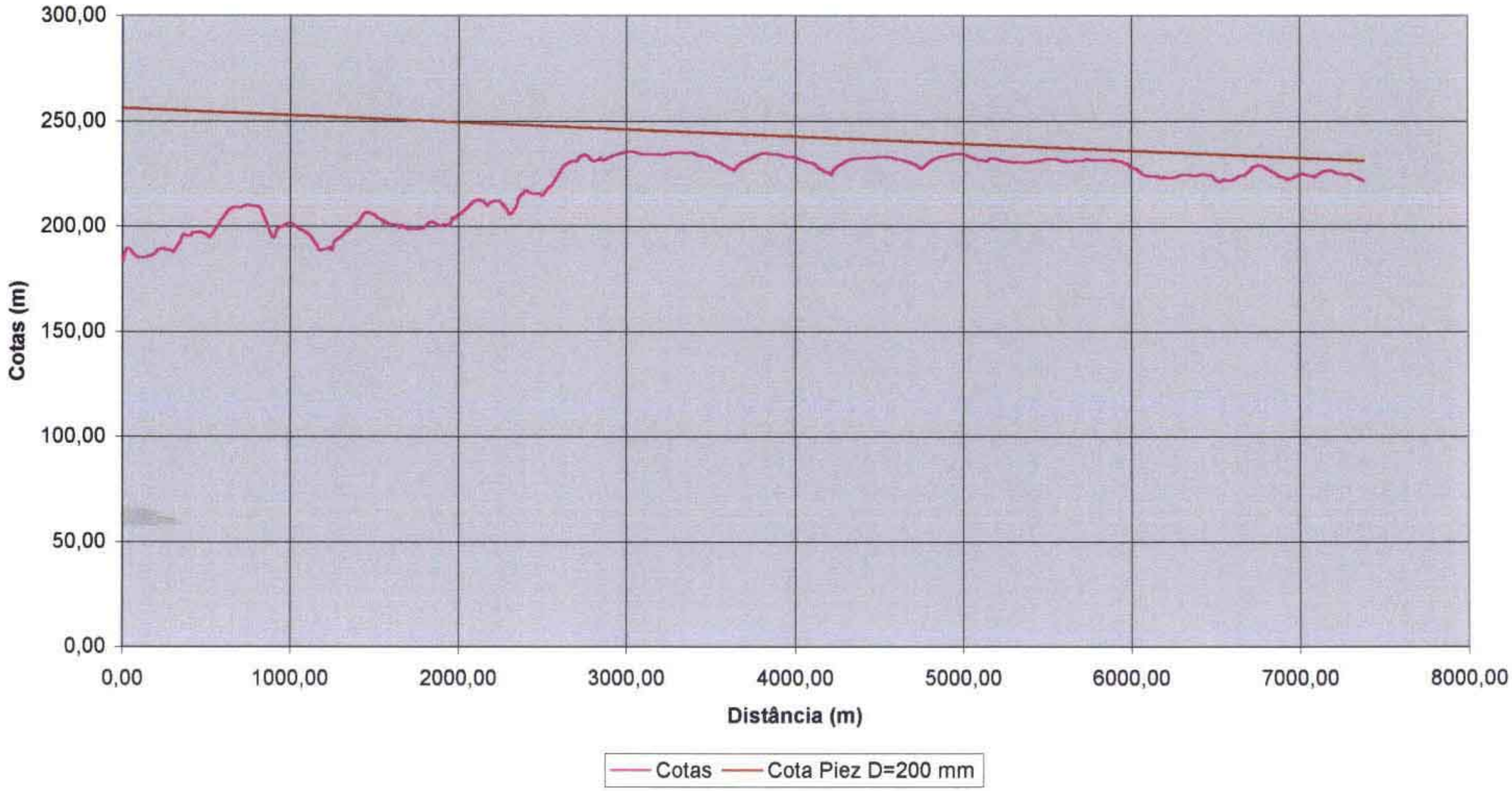
Material da adutora de recalque PVC rígido pba pressão de serviço 100 mca ou outro compatível com as condições de projeto

Curva característica da adutora· Figura 6 1 e quadro 6 3

Perfil Piezométrico da Adutora Figura 8 1

000041

Figura 8.1
Perfil Piezométrico da Adutora da Turbobomba do Quixeramobim para o riacho Quinim D = 200 mm e L = 7380 m



9. QUANTIFICAÇÃO E ORÇAMENTO

9. QUANTIFICAÇÃO E ORÇAMENTO

Na planilha seguinte apresenta-se a quantificação e orçamento do sistema projetado

000044

Item	Discriminação	Unid	Quant	P unit (R$)	P Tot (R$)
1	**Serviços preliminares**				
1 1	Mobilização e desmobilização	total	1,00	15 000,00	15 000,00
1 2	Canteiro de Obras incluindo manutenção e operação	total	1,00	15 000,00	15 000,00
1 3	Placas alusivas á obra	m²	30,00	47,22	1 416,60
2.	**Obras Civis da Estação Elevatória e canal de descarga**				
2 1	Desmatamento, destocamento limpeza e bota-fora na área da estação	m²	270,00	0,15	40,50
2 2	Locação com guias de madeira (estação e canal)	m²	270,00	1,45	391,50
2 3	Escavação das fundações em qualquer material inclusive bota-fora	m³	525,00	11,34	5 953,50
2 4	Reaterro compactado manualmente	m³	195,00	8,74	1 704,30
2 5	Escavação do canal de fuga em qualquer material	m³	288,00	11,34	3 265,92
2 6	Concreto ciclopico para fundações	m³	58,20	151,09	8 793,44
2 7	Piso de concreto simples espessura de 10 cm	m²	16,80	218,54	3 671,47
2 8	Alvenaria de elevação com tijolos furados (1/2 tijolo)	m²	236,60	14,97	3 541,90
2 9	Reboco de paredes	m²	473,20	9,31	4 405,49
2 10	Estrutura de madeira para telhas de fibrocimento	m²	224,00	8,65	1 937,60
2 11	Cobertura com telhas de fibrocimento e=6mm	m²	224,00	18,86	4 224,64
2 12	Portão de ferro de enrolar (completo)	m²	9,00	73,25	659,25
2 13	Combogo anti-respingo	m²	20,50	27,66	567,03
2 14	Pintura á cal (2 demãos)	m²	473,20	2,19	1 036,31
2 15	Pintura com esmalte	m²	18,00	8,79	158,22
2 16	Concreto simples do canal de fuga incluindo fôrmas	m³	9,55	250,00	2 387,50
	sub-total 1				**74.155,17**

Ítem	Discriminação	Unid	Quant	P unit (R$)	P Tot (R$)
3	**Equipamento hidromecânico e de controle da Estação**				
3 1	Turbina com descarga turbinada de 420 l/s e cargas brutas variando entre 6 e 18 mca para acionar as bombas nas condições de projeto, potência aproximada de 25 cv				
	Bomba com eixo acoplado á turbina e dispositivo de ajuste de rotação, bases para assentamento, para funcionar nas condições de projeto e uma vazão de 13,50 l/s	ud	2,00	29 000,00	58 000,00
3 2	Registro de gaveta c/flanges D = 100 mm PN min 1,20 Mpa	ud	2,00	890,76	1 781,52
3 3	Registro de gaveta c/flanges D = 700 mm PN min 1,20 Mpa	ud	2,00	21 433,18	42 866,36
3 4	Tubulação com flanges de derivação da galeria D = 900 mm PN min 1,0 Mpa c/ dimensões do projeto incluindo curvas reduções e detalhamento do projeto mecânico	ud	1,00	23 144,94	23 144,94
3 5	Tubulação de recalque com flanges D = 100 mm PN min 1,0 Mpa c/ dimensões do projeto incluindo curvas, reduções e detalhamento do projeto mecânico	ud	2,00	600,00	1 200,00
3 6	Tubulação de sucção com flanges D = 100 mm PN min 1,0 Mpa c/ dimensões do projeto incluindo curvas, reduções e detalhamento do projeto mecânico		2,00	600,00	1 200,00
3 7	Tubulação com flanges D = 700 mm PN min 1,0 Mpa c/ dimensões do projeto incluindo curvas reduções e detalhamento do projeto mecânico	ud	1,00	17 308,75	17 308,75
3 8	Medidor de vazão tipo turbina de inserção de 28"	ud	2,00	4 312,50	8 625,00
3 9	Medidor de vazão tipo turbina de inserção de 4"	ud	2,00	3 687,50	7 375,00
3 10	Montagem e testes de funcionamento do sistema	total	1,00	10 000,00	10 000,00
3 11	Trolley com talha e monovia com capacidade para 1,0 t	ud	1,00	929,70	929,70
3 12	Montagem trolley/Talha/Monovia	total	1,00	220,00	220,00
3 13	Painel Solar de 75W, controlador de 12W, inversor de 800W, suporte, cabos, terminais e bateria de 150amp	ud	1,00	5 725,00	5 725,00
	Sub-total 2				**178.376,27**

Item	Discriminação	Unid	Quant	P unit (R$)	P Tot (R$)
4.	**Obras Civis da adutora**				
4 1	Desmatamento, destocamento e bota-fora na faixa de domínio da adutora	m2	30 996,00	0,15	4 649,40
4 2	Locação e nivelamento completos, da adutora esuas obras acessorias	m	7 380,00	0,64	4 715,82
4 3	Escavação de valas em 1a categoria	m3	3 487,05	7,24	25 246,24
4 4	Escavação de valas em 2a categoria inclusive bota fora	m3	1 394,82	9,05	12 623,12
4 5	Escavação de valas em 3a categoria inclusive bota fora	m3	2 092,23	26,40	55 234,87
4 6	Preparo do fundo da vala	m2	4 428,00	0,72	3 188,16
4 7	Colchão de areia incluindo aquisição de material	m3	664,20	15,00	9 963,00
4 8	Aterro compactado com material selecionado	m3	2 214,00	8,00	17 712,00
4 9	Aterro compactado com material das escavações	m3	4 095,90	5,22	21 380,60
4 10	Assentamento e montagem completos de tubos e conexões de PVC com junta elastica de 200 mm	m	7 749,00	2,71	20 999,79
4 11	Blocos de ancoragem de concreto simples	m3	15,00	218,54	3 278,10
4 12	Caixas para registros e ventosas de acordo c/o projeto	ud	39,00	283,03	11 038,17
4 13	Envelopamento de tubulação incluindo aquisição e construção (concreto e areia)	m3	54,00	218,54	11 801,16
4 14	Teste hidrostatico na tubulação	m	7 380,00	0,63	4 612,50
	Sub total 3				**206.442,93**

Ítem	Discriminação	Unid	Quant	P unit (R$)	P Tot (R$)
5.	**Aquisição de tubos, peças e conexões da adutora incluindo acessórios necessários á montagem completa**				
5 1	Tubos com ponta bolsa e anel de borracha, pressão de serviço mínima de 1,0 mpa, diâmetro interno 200 mm e comprimento máximo por tubo de 7m	m	7 749,00	56,50	437 818,50
5 2	Curvas 90° pba D = 200 mm	ud	1,00	210,11	210,11
5 3	Curvas 45° pba D = 200 mm	ud	9,00	142,66	1 283,94
5 4	Curvas 22° 30' pba D = 200 mm	ud	6,00	128,12	768,72
5 5	T 90° com flanges 200/50 mm	ud	39,00	140,85	5 493,15
5 6	Ventosas c/flanges de FoFo - triplice função D = 50 mm	ud	20,00	736,77	14 735,40
5 7	Registro de gaveta de FoFo com flanges D = 50 mm	ud	39,00	535,97	20 902,83
5 8	Extremidade bolsa flange 200 mm L = 1,00 mm	ud	78,00	129,60	10 108,80
5 9	Extremidade ponta flange 50 mm L = 1,00 m	ud	19,00	20,00	380,00
	Sub total 4				**491.701,45**

TOTAL GERAL		**R$**	**950.675,83**

ANEXOS

000049

I – PLANILHA COM CÁLCULO DOS TRANSIENTES HIDRÁULICOS

000050

========== DADOS DE ENTRADA ==========

Número de Trechos do Sistema = 11
Número de Trechos do Último tubo = 1
Vazão no Estado Permanente (m3/s) = 0,02697
Rotação Inicial da Bomba (rpm) = 3500
Tempo de Cálculo do Transitório a ser considerado (s) = 300
Número de Bombas em Paralelo = 2
Vazão Ótima (m3/s) = 0,013453
Carva Ótima (m3/s) = 73
Rotação Ótima (rpm) = 3500
Eficiência Ótima = 0,64
Momento de Inércia das Massas Girantes (kg m2) = 0,04
Intervalo de Tempo Computacional (DT) em segundos = 0,8244023

Rotação Específica (Ns) = 16,25494

PONTOS DA CURVA CARACTERÍSTICA

	TH	FH(1)	FB(1)
Posição = 1	0	-0,44	-0,62
Posição = 2	5	-0,37	-0,51
Posição = 3	10	-0,21	-0,41
Posição = 4	15	-0,11	-0,3
Posição = 5	20	-0,04	-0,19
Posição = 6	25	-0,01	0,01
Posição = 7	30	0,09	0,23
Posição = 8	35	0,22	0,34
Posição = 9	40	0,36	0,42
Posição = 10	45	0,5	0,5
Posição = 11	50	0,64	0,54
Posição = 12	55	0,79	0,57
Posição = 13	60	0,92	0,57
Posição = 14	65	1,03	0,55
Posição = 15	70	1,11	0,51
Posição = 16	75	1,2	0,47
Posição = 17	80	1,24	0,42
Posição = 18	85	1,27	0,38
Posição = 19	90	1,28	0,34
Posição = 20	95	1,28	0,3
Posição = 21	100	1,27	0,27
Posição = 22	105	1,26	0,25
Posição = 23	110	1,25	0,24
Posição = 24	115	1,24	0,25
Posição = 25	120	1,25	0,28
Posição = 26	125	1,23	0,31
Posição = 27	130	1,19	0,38
Posição = 28	135	1,19	0,44
Posição = 29	140	1,2	0,5
Posição = 30	145	1,19	0,56
Posição = 31	150	1,14	0,62
Posição = 32	155	1,09	0,67
Posição = 33	160	1,02	0,7
Posição = 34	165	0,96	0,72
Posição = 35	170	0,9	0,73
Posição = 36	175	0,83	0,74
Posição = 37	180	0,77	0,73
Posição = 38	185	0,7	0,7
Posição = 39	190	0,63	0,66
Posição = 40	195	0,56	0,61
Posição = 41	200	0,49	0,56
Posição = 42	205	0,43	0,51
Posição = 43	210	0,4	0,45
Posição = 44	215	0,39	0,39
Posição = 45	220	0,4	0,33
Posição = 46	225	0,42	0,27

Posição = 47	230	0,48	0,2
Posição = 48	235	0,53	0,13
Posição = 49	240	0,6	0,07
Posição = 50	245	0,63	0
Posição = 51	250	0,67	-0,07
Posição = 52	255	0,71	-0,15
Posição = 53	260	0,73	-0,24
Posição = 54	265	0,74	-0,31
Posição = 55	270	0,74	-0,4
Posição = 56	275	0	0
Posição = 57	280	0	0
Posição = 58	285	0	0
Posição = 59	290	0	0
Posição = 60	295	0	0
Posição = 61	300	0	0
Posição = 62	305	0	0
Posição = 63	310	0	0
Posição = 64	315	0	0
Posição = 65	320	0	0
Posição = 66	325	0	0
Posição = 67	330	0	0
Posição = 68	335	0	0
Posição = 69	340	0	0
Posição = 70	345	0	0
Posição = 71	350	0	0
Posição = 72	355	0	0

TUBO Nº	COMPR.	DIAMETRO	CELERIDADE	COEF.DE ATRITO
1	760	0,2042	460,94	1591,931
2	420	0,2042	509,46	1759,502
3	280	0,2042	339,64	1173,002
4	840	0,2042	509,46	1759,502
5	720	0,2042	436,68	1508,145
6	900	0,2042	545,85	1885,181
7	1080	0,2042	436,68	1508,145
8	1000	0,2042	404,3333	1396,431
9	840	0,2042	509,46	1759,502
10	160	0,2042	194,08	670,2866
11	380	0,2042	460,94	1591,931

TUBO Nº	CELERIDADE AJUSTADA
1	460,94
2	509,46
3	339,64
4	509,46
5	436,68
6	545,85
7	436,68
8	404,3333
9	509,46
10	194,08
11	460,94

RESUMO DOS RESULTADOS ==========

Carga Máxima no Sistema = 263,04
Carga Mínima no Sistema = 197,05

TUBO = 1
Carga Máxima no Trecho 1 = 263,04
Carga Mínima no Trecho 1 = 197,05

TUBO = 2
Carga Máxima no Trecho 2 = 260,30
Carga Mínima no Trecho 2 = 201,77

TUBO = 3
Carga Máxima no Trecho 3 = 260,38
Carga Mínima no Trecho 3 = 201,64

TUBO = 4
Carga Máxima no Trecho 4 = 260,89
Carga Mínima no Trecho 4 = 201,64

TUBO = 5
Carga Máxima no Trecho 5 = 261,03
Carga Mínima no Trecho 5 = 200,45

TUBO = 6
Carga Máxima no Trecho 6 = 261,34
Carga Mínima no Trecho 6 = 200,45

TUBO = 7
Carga Máxima no Trecho 7 = 261,34
Carga Mínima no Trecho 7 = 203,91

TUBO = 8
Carga Máxima no Trecho 8 = 260,76
Carga Mínima no Trecho 8 = 205,51

TUBO = 9
Carga Máxima no Trecho 9 = 255,36
Carga Mínima no Trecho 9 = 207,30

TUBO = 10
Carga Máxima no Trecho 10 = 246,09
Carga Mínima no Trecho 10 = 211,87

TUBO = 11
Carga Máxima no Trecho 11 = 245,37
Carga Mínima no Trecho 11 = 215,84

RESULTADOS ==========

LEGENDA

H(1,2,3) = Carga no conduto 1, na seção 2, no intervalo de tempo 3
Q(1,2,3) = Vazão no conduto 1, na seção 2, no intervalo de tempo 3

Trecho 1

x(DT) (s)	H(1 , 1 ,DT) (m)	Q(1 , 1 ,DT) (m3/s)
1	72,89565	0,02697
2	34,1995	0
3	34,1995	0
4	33,04181	0
5	33,04182	0
6	28,14155	0
7	28,14156	0
8	41,53357	0
9	41,53358	0
10	26,85559	0
11	26,85558	0
12	26,25261	0
13	26,25261	0
14	25,76923	0
15	25,76922	0
16	30,54046	0
17	30,54045	0
18	20,5542	0
19	20,5542	0

20	17,64646	0
21	17,64645	0
22	21,51521	0
23	21,51523	0
24	25,46246	0
25	25,46245	0
26	22,98096	0
27	22,98096	0
28	20,71402	0
29	20,71402	0
30	21,2553	0
31	21,25529	0
32	22,76019	0
33	22,76018	0
34	14,71542	0
35	14,71544	0
36	11,51363	0
37	11,51362	0
38	31,40118	0
39	31,40118	0
40	22,45749	0
41	22,45748	0
42	48,50946	0
43	48,50946	0
44	56,7599	0
45	56,75987	0
46	77,5017	0
47	77,50171	0
48	63,14994	0
49	63,14992	0
50	61,25642	0
51	61,25642	0
52	58,19404	0
53	58,19407	0
54	76,24851	0
55	76,24851	0
56	74,03544	0
57	74,03542	0
58	70,87996	0
59	70,87996	0
60	67,44749	0
61	67,4475	0
62	73,52296	0
63	73,52298	0
64	72,55628	0
65	72,55627	0
66	65,75471	0
67	65,75469	0
68	61,39916	0
69	61,39917	0
70	75,81789	0
71	75,81791	0
72	73,27264	0
73	73,27265	0
74	71,08842	0
75	71,08841	0
76	73,41582	0
77	73,41582	0
78	67,29224	0
79	67,29228	0
80	66,62647	0
81	66,62649	0
82	48,17262	0
83	48,1726	0
84	45,90343	0
85	45,90345	0

86	34,20487	0
87	34,20487	0
88	39,92321	0
89	39,92323	0
90	33,54184	0
91	33,54183	0
92	43,79291	0
93	43,79286	0
94	35,65569	0
95	35,65568	0
96	33,21324	0
97	33,21321	0
98	25,1418	0
99	25,14179	0
100	32,13496	0
101	32,13495	0
102	40,0097	0
103	40,00969	0
104	39,87688	0
105	39,87687	0
106	31,42912	0
107	31,42911	0
108	40,41837	0
109	40,41841	0
110	37,67937	0
111	37,67934	0
112	36,30419	0
113	36,3042	0
114	29,1145	0
115	29,11448	0
116	32,5168	0
117	32,51683	0
118	41,25201	0
119	41,25199	0
120	44,1184	0
121	44,11837	0
122	49,2004	0
123	49,20037	0
124	52,36045	0
125	52,36045	0
126	65,20795	0
127	65,20796	0
128	60,85265	0
129	60,85265	0
130	63,71169	0
131	63,71167	0
132	56,0774	0
133	56,07747	0
134	66,48662	0
135	66,48666	0
136	65,46487	0
137	65,46487	0
138	67,69205	0
139	67,69203	0
140	66,96988	0
141	66,96991	0
142	65,18375	0
143	65,18382	0
144	55,4263	0
145	55,42633	0
146	59,14311	0
147	59,1431	0
148	59,04868	0
149	59,0486	0
150	65,75834	0
151	65,75835	0

152	60,67082	0
153	60,67077	0
154	62,53563	0
155	62,53563	0
156	61,94015	0
157	61,94011	0
158	63,03473	0
159	63,03473	0
160	53,64143	0
161	53,64145	0
162	46,56431	0
163	46,56429	0
164	46,23035	0
165	46,23038	0
166	43,42052	0
167	43,42054	0
168	43,38996	0
169	43,38994	0
170	33,95276	0
171	33,95273	0
172	41,93811	0
173	41,93811	0
174	40,19966	0
175	40,1997	0
176	37,78438	0
177	37,78436	0
178	32,08932	0
179	32,08932	0
180	36,54401	0
181	36,54398	0
182	39,17966	0
183	39,17968	0
184	46,03826	0
185	46,0382	0
186	42,84225	0
187	42,84222	0
188	45,00452	0
189	45,00456	0
190	40,0959	0
191	40,09593	0
192	40,90245	0
193	40,90252	0
194	37,34383	0
195	37,34379	0
196	44,48787	0
197	44,48789	0
198	43,64592	0
199	43,64599	0
200	48,65807	0
201	48,65808	0
202	49,48615	0
203	49,48612	0
204	56,20325	0
205	56,20321	0
206	60,32385	0
207	60,32386	0
208	55,43404	0
209	55,43408	0
210	59,59238	0
211	59,59236	0
212	61,38338	0
213	61,38336	0
214	64,41099	0
215	64,411	0
216	60,90072	0
217	60,90075	0

218	62,81299	0
219	62,81296	0
220	62,29588	0
221	62,29592	0
222	63,55366	0
223	63,55368	0
224	54,80057	0
225	54,80062	0
226	52,87393	0
227	52,87391	0
228	53,88766	0
229	53,88762	0
230	60,85367	0
231	60,85368	0
232	58,32798	0
233	58,32791	0
234	59,49386	0
235	59,49383	0
236	54,08254	0
237	54,08252	0
238	57,5958	0
239	57,59578	0
240	48,8364	0
241	48,83635	0
242	48,9726	0
243	48,97256	0
244	46,82656	0
245	46,82661	0
246	44,49694	0
247	44,49699	0
248	42,44158	0
249	42,44157	0
250	41,24778	0
251	41,2477	0
252	41,58397	0
253	41,58395	0
254	39,07675	0
255	39,07679	0
256	38,33548	0
257	38,3355	0
258	37,0094	0
259	37,00938	0
260	42,17442	0
261	42,17436	0
262	42,34819	0
263	42,34824	0
264	44,18373	0
265	44,18372	0
266	45,56882	0
267	45,56881	0
268	49,26494	0
269	49,26494	0
270	46,05415	0
271	46,05419	0
272	42,93829	0
273	42,93837	0
274	39,14282	0
275	39,14282	0
276	49,42812	0
277	49,42812	0
278	48,16013	0
279	48,16014	0
280	52,00586	0
281	52,00591	0
282	50,08162	0
283	50,0816	0

284	55,20521	0
285	55,20523	0
286	55,72356	0
287	55,72353	0
288	57,74077	0
289	57,74076	0
290	57,19655	0
291	57,19654	0
292	60,28893	0
293	60,28895	0
294	62,17815	0
295	62,17818	0
296	60,67479	0
297	60,67476	0
298	61,09871	0
299	61,09862	0
300	59,37592	0
301	59,37597	0
302	57,981	0
303	57,98102	0
304	54,19717	0
305	54,19719	0
306	52,88296	0
307	52,88288	0
308	54,19812	0
309	54,19809	0
310	54,82368	0
311	54,8237	0
312	52,94171	0
313	52,94168	0
314	57,87084	0
315	57,87082	0
316	53,96936	0
317	53,96931	0
318	52,83684	0
319	52,8369	0
320	45,56371	0
321	45,56372	0
322	48,35378	0
323	48,35373	0
324	47,12986	0
325	47,1298	0
326	48,85913	0
327	48,85917	0
328	41,89442	0
329	41,89445	0
330	42,2186	0
331	42,21857	0
332	41,69041	0
333	41,69041	0
334	41,4261	0
335	41,42611	0
336	39,42163	0
337	39,42167	0
338	39,37739	0
339	39,3774	0
340	43,46007	0
341	43,46003	0
342	45,76638	0
343	45,76641	0
344	45,20622	0
345	45,20616	0
346	47,78869	0
347	47,78873	0
348	48,6615	0
349	48,66154	0

350	47,25886	0
351	47,25891	0
352	47,08502	0
353	47,08508	0
354	45,51513	0
355	45,51513	0
356	49,09268	0
357	49,0927	0
358	49,21622	0
359	49,21622	0
360	53,38841	0
361	53,38842	0
362	52,3942	0
363	52,39414	0
364	56,51744	0

x(DT) (s)	H(1 , 2 ,DT) (m)	Q(1 , 2 ,DT) (m3/s)
1	71,7377	0,02697
2	71,73771	0,02697
3	33,62053	4,035253E-04
4	33,62053	4,035262E-04
5	30,58936	1,709284E-03
6	30,58937	1,709284E-03
7	34,85499	-4,679052E-03
8	34,855	-4,679053E-03
9	34,17363	5,129643E-03
10	34,17363	5,129651E-03
11	26,55406	2,101548E-04
12	26,55406	2,10152E-04
13	26,0109	1,684632E-04
14	26,01089	1,684669E-04
15	28,15705	-1,664235E-03
16	28,15704	-1,664235E-03
17	25,53766	3,486799E-03
18	25,53765	3,486798E-03
19	19,09951	1,013875E-03
20	19,09951	1,013875E-03
21	19,58228	-1,34921E-03
22	19,58229	-1,349219E-03
23	23,49034	-1,376605E-03
24	23,49035	-1,376596E-03
25	24,22111	8,651782E-04
26	24,22111	8,651754E-04
27	21,84699	7,903394E-04
28	21,84699	7,90339E-04
29	20,98469	-1,886482E-04
30	20,98469	-1,886445E-04
31	22,00796	-5,245809E-04
32	22,00796	-5,245833E-04
33	18,73153	2,80785E-03
34	18,73154	2,80784E-03
35	13,11353	1,116462E-03
36	13,11354	1,116477E-03
37	21,49594	-6,95735E-03
38	21,49593	-6,957358E-03
39	26,92158	3,122143E-03
40	26,92157	3,122149E-03
41	35,54975	-9,124895E-03
42	35,54974	-9,124896E-03
43	52,64128	-2,879748E-03
44	52,64126	-2,879741E-03
45	67,17272	-7,257415E-03
46	67,17271	-7,257426E-03
47	70,3058	5,015317E-03
48	70,30579	5,01533E-03

49	62,20283	6,601065E-04
50	62,20282	6,600954E-04
51	59,72432	1,067823E-03
52	59,72433	1,067817E-03
53	67,25301	-6,313816E-03
54	67,25302	-6,313808E-03
55	75,1415	7,715523E-04
56	75,14149	7,71556E-04
57	72,45673	1,100307E-03
58	72,45673	0,0011003
59	69,16258	1,196956E-03
60	69,16259	1,196951E-03
61	70,4888	-2,119699E-03
62	70,48882	-2,119699E-03
63	73,03953	3,369339E-04
64	73,03954	3,369488E-04
65	69,15101	2,373366E-03
66	69,15099	2,373366E-03
67	63,5751	1,519119E-03
68	63,57509	1,519112E-03
69	68,62873	-5,038787E-03
70	68,62875	-5,038789E-03
71	74,54463	8,874163E-04
72	74,54465	8,8742E-04
73	72,18007	7,614866E-04
74	72,18007	7,614959E-04
75	72,25265	-8,11426E-04
76	72,25264	-8,114316E-04
77	70,3504	2,136504E-03
78	70,35042	2,136489E-03
79	66,95931	2,32039E-04
80	66,95934	2,320483E-04
81	57,36639	6,453989E-03
82	57,36639	6,453998E-03
83	47,03753	7,911213E-04
84	47,03753	7,911101E-04
85	40,04086	4,086026E-03
86	40,04087	4,086032E-03
87	37,06721	-1,994958E-03
88	37,06722	-1,994966E-03
89	36,72858	2,226558E-03
90	36,72858	2,226569E-03
91	38,67757	-3,579448E-03
92	38,67754	-3,57943E-03
93	39,71788	2,840171E-03
94	39,71785	2,840155E-03
95	34,43388	8,515557E-04
96	34,43387	8,51565E-04
97	29,1712	2,817173E-03
98	29,17118	2,817167E-03
99	28,64312	-2,440309E-03
100	28,64311	-2,440313E-03
101	36,07834	-2,748413E-03
102	36,07833	-2,74841E-03
103	39,94329	4,62858E-05
104	39,94328	4,62858E-05
105	35,64608	2,948739E-03
106	35,64607	2,948735E-03
107	35,93158	-3,138077E-03
108	35,9316	-3,138094E-03
109	39,04815	9,550052E-04
110	39,04815	9,550303E-04
111	36,9916	4,793564E-04
112	36,99158	4,793433E-04
113	32,70433	2,508986E-03
114	32,70433	2,508995E-03

115	30,81677	-1,18643E-03
116	30,81678	-1,186447E-03
117	36,8918	-3,04924E-03
118	36,89181	-3,049224E-03
119	42,686	-9,994479E-04
120	42,68597	-9,994423E-04
121	46,6619	-1,772738E-03
122	46,66187	-1,772743E-03
123	50,78139	-1,101904E-03
124	50,78138	-1,101909E-03
125	58,80023	-4,488327E-03
126	58,80024	-4,488334E-03
127	63,02846	1,519034E-03
128	63,02847	1,519037E-03
129	62,28296	-9,968802E-04
130	62,28295	-9,968728E-04
131	59,88889	2,664367E-03
132	59,88892	2,664337E-03
133	61,29253	-3,634779E-03
134	61,29258	-3,634768E-03
135	65,97564	3,561359E-04
136	65,97566	3,561433E-04
137	66,57894	-7,764716E-04
138	66,57893	-7,764623E-04
139	67,33092	2,517011E-04
140	67,33092	2,516843E-04
141	66,07651	6,226525E-04
142	66,07656	6,226394E-04
143	60,29579	3,406757E-03
144	60,29584	3,406774E-03
145	57,28605	-1,296179E-03
146	57,28605	-1,29617E-03
147	59,09589	3,290921E-05
148	59,09585	3,293343E-05
149	62,40787	-2,341254E-03
150	62,40784	-2,341287E-03
151	63,21207	1,774669E-03
152	63,21206	1,774689E-03
153	61,60356	-6,500911E-04
154	61,60354	-6,501097E-04
155	62,23785	2,075396E-04
156	62,23783	2,075564E-04
157	62,48756	-3,815275E-04
158	62,48753	-3,815405E-04
159	58,32952	3,279386E-03
160	58,32953	3,279379E-03
161	50,09801	2,469648E-03
162	50,09801	2,469663E-03
163	46,39732	1,163874E-04
164	46,39732	1,163688E-04
165	44,82467	9,797132E-04
166	44,8247	9,797169E-04
167	43,40524	1,064967E-05
168	43,40524	1,066271E-05
169	38,66272	3,29474E-03
170	38,66269	3,294743E-03
171	37,95162	-2,78708E-03
172	37,9516	-2,787091E-03
173	41,06859	6,060274E-04
174	41,06861	6,060144E-04
175	38,99146	8,420786E-04
176	38,99147	0,0008421
177	34,93371	1,98683E-03
178	34,9337	1,986822E-03
179	34,31859	-1,55373E-03
180	34,31857	-1,553718E-03

181	37,86251	-9,189518E-04
182	37,8625	-9,189686E-04
183	42,61352	-2,393289E-03
184	42,6135	-2,393267E-03
185	44,43927	1,114448E-03
186	44,43922	1,11444E-03
187	43,92384	-7,53832E-04
188	43,92384	-7,538572E-04
189	42,54787	1,712201E-03
190	42,54791	1,712208E-03
191	40,49924	-2,811141E-04
192	40,49929	-2,811234E-04
193	39,12191	1,240976E-03
194	39,12193	1,241015E-03
195	40,9208	-2,493031E-03
196	40,92078	-2,493056E-03
197	44,06682	2,934532E-04
198	44,06687	2,934346E-04
199	46,15443	-1,748353E-03
200	46,15447	-1,748328E-03
201	49,07218	-2,886187E-04
202	49,07217	-2,886057E-04
203	52,84907	-2,34385E-03
204	52,84903	-2,343846E-03
205	58,26519	-1,437111E-03
206	58,26518	-1,437131E-03
207	57,87663	1,705635E-03
208	57,87666	1,70563E-03
209	57,51488	-1,450283E-03
210	57,51489	-1,450263E-03
211	60,48819	-6,243493E-04
212	60,48817	-6,243512E-04
213	62,89807	-1,055693E-03
214	62,89806	-1,055701E-03
215	62,65466	1,224106E-03
216	62,65468	1,224101E-03
217	61,85721	-6,666444E-04
218	61,8572	-6,666221E-04
219	62,55441	1,80224E-04
220	62,55441	1,801979E-04
221	62,92492	-4,384238E-04
222	62,92495	-4,384164E-04
223	59,16969	3,055494E-03
224	59,16972	3,055485E-03
225	53,83689	6,716568E-04
226	53,83691	6,716773E-04
227	53,38089	-3,533382E-04
228	53,38086	-3,533289E-04
229	57,37537	-2,430825E-03
230	57,37535	-2,430841E-03
231	59,59021	8,805934E-04
232	59,59018	8,806214E-04
233	58,91105	-4,063807E-04
234	58,911	-4,063956E-04
235	56,78536	1,887737E-03
236	56,78534	1,887733E-03
237	55,84036	-1,225149E-03
238	55,84034	-1,225149E-03
239	53,20866	3,057702E-03
240	53,20862	3,057711E-03
241	48,9045	-4,746579E-05
242	48,90446	-4,747137E-05
243	47,89914	7,481705E-04
244	47,89914	7,481426E-04
245	45,66122	8,122036E-04
246	45,66128	8,122018E-04

247	43,46885	7,165438E-04
248	43,46887	7,165698E-04
249	41,84454	4,16114E-04
250	41,84449	4,16141E-04
251	41,41589	-1,171613E-04
252	41,41584	-1,171883E-04
253	40,32975	8,741487E-04
254	40,32976	8,741328E-04
255	38,70606	2,583573E-04
256	38,70609	2,583629E-04
257	37,67227	4,622368E-04
258	37,67227	4,622526E-04
259	39,59449	-1,801727E-03
260	39,59445	-1,801716E-03
261	42,26131	-6,055553E-05
262	42,2613	-6,05965E-05
263	43,26628	-6,398866E-04
264	43,2663	-6,398614E-04
265	44,87646	-4,828097E-04
266	44,87645	-4,828116E-04
267	47,41821	-1,288962E-03
268	47,4182	-1,288967E-03
269	47,65855	1,119604E-03
270	47,65857	1,119591E-03
271	44,49528	1,086485E-03
272	44,49534	1,086471E-03
273	41,03916	1,323632E-03
274	41,0392	1,323659E-03
275	44,29573	-3,591419E-03
276	44,29574	-3,591421E-03
277	48,79396	4,419815E-04
278	48,79398	4,419778E-04
279	50,08443	-1,341175E-03
280	50,08446	-1,341188E-03
281	51,04338	6,708167E-04
282	51,0434	6,70841E-04
283	52,64596	-1,787264E-03
284	52,64596	-1,787273E-03
285	55,46441	-1,806542E-04
286	55,46441	-1,806393E-04
287	56,73256	-7,032417E-04
288	56,73254	-7,032491E-04
289	57,46863	1,896732E-04
290	57,46862	1,896732E-04
291	58,74366	-1,078291E-03
292	58,74367	-0,0010783
293	61,23389	-6,586034E-04
294	61,23391	-6,58609E-04
295	61,42625	5,240496E-04
296	61,42625	5,240701E-04
297	60,88677	-1,477413E-04
298	60,88671	-1,477171E-04
299	60,23703	6,005652E-04
300	60,23701	6,005149E-04
301	58,67827	4,862398E-04
302	58,67831	4,862491E-04
303	56,0877	1,319572E-03
304	56,08772	1,31957E-03
305	53,5399	4,580989E-04
306	53,53987	4,581325E-04
307	53,54071	-4,584286E-04
308	53,54066	-4,584454E-04
309	54,51094	-2,180263E-04
310	54,51093	-2,180412E-04
311	53,88235	6,560758E-04
312	53,88235	6,560925E-04

313	55,40863	-1,719365E-03
314	55,4086	-1,719369E-03
315	55,91863	1,360631E-03
316	55,91859	1,36064E-03
317	53,40298	3,947522E-04
318	53,40298	3,947131E-04
319	49,19514	2,538146E-03
320	49,19518	2,538165E-03
321	46,9595	-9,728204E-04
322	46,95948	-0,0009728
323	47,74168	4,266147E-04
324	47,74162	4,266202E-04
325	47,99479	-6,028246E-04
326	47,99477	-6,0286E-04
327	45,37207	2,430373E-03
328	45,37211	2,430369E-03
329	42,05652	-1,129787E-04
330	42,05652	-1,129564E-04
331	41,95448	1,840862E-04
332	41,95446	1,84074E-04
333	41,55825	9,211339E-05
334	41,55825	9,210873E-05
335	40,42348	6,987965E-04
336	40,4235	6,98789E-04
337	39,39951	1,541898E-05
338	39,39953	1,542736E-05
339	41,42034	-1,423876E-03
340	41,42033	-1,423856E-03
341	44,61374	-8,040732E-04
342	44,61374	-8,040983E-04
343	45,48627	1,952313E-04
344	45,48626	1,952611E-04
345	46,4981	-9,004008E-04
346	46,49809	-9,004343E-04
347	48,22517	-3,042109E-04
348	48,2252	-3,042128E-04
349	47,95999	4,889295E-04
350	47,96003	4,889257E-04
351	47,17194	6,058253E-05
352	47,17199	6,057881E-05
353	46,29984	5,472489E-04
354	46,29987	5,472694E-04
355	47,30514	-1,247585E-03
356	47,30516	-1,247594E-03
357	49,15445	-4,305504E-05
358	49,15446	-4,304387E-05
359	51,304	-1,455115E-03
360	51,30401	-1,455121E-03
361	52,8912	3,465358E-04
362	52,89119	3,465582E-04
363	54,45746	-1,438035E-03
364	54,45745	-1,438063E-03

x(DT) (s)	H(1 , 3 ,DT) (m)	Q(1 , 3 ,DT) (m3/s)
1	70,57977	0,02697
2	70,57976	0,02697
3	70,57977	0,02697
4	31,16451	2,11511E-03
5	31,16452	2,115111E-03
6	37,30985	-2,97793E-03
7	37,30986	-2,97793E-03
8	27,49487	4,750085E-04
9	27,49487	4,750146E-04
10	33,84952	5,32634E-03
11	33,84953	5,326346E-03

12	26,31224	3,786478E-04
13	26,31223	3,786488E-04
14	28,4005	-1,497047E-03
15	28,40049	-1,497043E-03
16	23,15159	1,82749E-03
17	23,15158	1,827489E-03
18	24,06686	4,498411E-03
19	24,06685	4,498409E-03
20	21,03543	-3,365387E-04
21	21,03543	-3,365474E-04
22	21,56334	-2,727923E-03
23	21,56333	-2,727923E-03
24	22,2492	-5,094671E-04
25	22,24921	-5,094621E-04
26	23,08496	1,656208E-03
27	23,08496	1,656206E-03
28	22,11737	6,011994E-04
29	22,11737	6,01202E-04
30	21,73775	-7,134716E-04
31	21,73775	-7,134707E-04
32	17,97514	2,286475E-03
33	17,97515	2,286463E-03
34	17,11739	3,924107E-03
35	17,11738	3,924112E-03
36	23,12318	-5,86133E-03
37	23,12319	-5,861323E-03
38	17,02776	-3,789467E-03
39	17,02775	-3,78947E-03
40	40,04282	-6,033764E-03
41	40,04282	-6,03376E-03
42	39,79604	-1,199204E-02
43	39,79602	-1,199203E-02
44	63,13668	-1,018551E-02
45	63,13668	-1,018552E-02
46	59,98063	-2,186309E-03
47	59,9806	-2,186309E-03
48	69,33315	5,665321E-03
49	69,33315	5,665323E-03
50	60,66836	1,729103E-03
51	60,66836	1,729088E-03
52	68,80533	-5,262621E-03
53	68,80534	-5,262619E-03
54	66,1702	-5,514908E-03
55	66,17021	-5,514895E-03
56	73,56001	1,873147E-03
57	73,56001	1,873144E-03
58	70,73515	2,29885E-03
59	70,73515	2,298839E-03
60	72,20457	-9,248064E-04
61	72,20458	-9,248118E-04
62	70,00789	-1,779536E-03
63	70,00789	-1,779525E-03
64	69,6284	2,714259E-03
65	69,6284	2,714276E-03
66	66,95933	3,89465E-03
67	66,95932	3,894644E-03
68	70,81458	-3,529138E-03
69	70,81458	-3,529145E-03
70	67,36907	-4,132675E-03
71	67,36909	-4,132674E-03
72	73,4499	1,649537E-03
73	73,44991	1,649551E-03
74	73,34429	-5,058479E-05
75	73,3443	-5,057894E-05
76	69,18582	1,326784E-03
77	69,18584	1,326766E-03

78	70,01301	2,366587E-03
79	70,01302	2,36658E-03
80	57,66338	6,710951E-03
81	57,66339	6,710974E-03
82	56,18972	7,227877E-03
83	56,18973	7,227874E-03
84	41,15593	4,889719E-03
85	41,15592	4,889713E-03
86	42,89977	2,074933E-03
87	42,89979	2,07493E-03
88	33,87253	2,360454E-04
89	33,87253	2,360499E-04
90	41,86578	-1,359415E-03
91	41,86576	-1,359389E-03
92	34,60295	-7,253538E-04
93	34,60295	-7,253522E-04
94	38,48524	3,690332E-03
95	38,4852	3,690324E-03
96	30,38109	3,675418E-03
97	30,38109	3,675421E-03
98	32,67241	3,681333E-04
99	32,6724	3,681235E-04
100	32,608	-5,197099E-03
101	32,60799	-0,0051971
102	36,01773	-2,697784E-03
103	36,01772	-2,697782E-03
104	35,70532	3,000014E-03
105	35,70531	3,000011E-03
106	40,14858	-1,990087E-04
107	40,14859	-1,990279E-04
108	34,56512	-2,17477E-03
109	34,5651	-2,174762E-03
110	38,35873	1,434492E-03
111	38,35876	1,434504E-03
112	33,38461	2,993058E-03
113	33,38459	2,993054E-03
114	34,40522	1,316533E-03
115	34,40524	1,316525E-03
116	35,20611	-4,244101E-03
117	35,20609	-4,244102E-03
118	38,33884	-4,04746E-03
119	38,33884	-4,047438E-03
120	45,23563	-2,775351E-03
121	45,23561	-2,77535E-03
122	48,24948	-2,875742E-03
123	48,24946	-2,875753E-03
124	57,24619	-5,606319E-03
125	57,24619	-5,606332E-03
126	56,62768	-2,951775E-03
127	56,62768	-2,951778E-03
128	64,45856	5,197415E-04
129	64,45855	5,197542E-04
130	58,45795	1,670136E-03
131	58,45798	1,670115E-03
132	65,10478	-9,788197E-04
133	65,10479	-9,788398E-04
134	60,79006	-3,269916E-03
135	60,7901	-3,269897E-03
136	67,08985	-4,205766E-04
137	67,08986	-4,205559E-04
138	66,21803	-5,242555E-04
139	66,21804	-5,242624E-04
140	66,43694	8,747097E-04
141	66,43696	8,746751E-04
142	61,17557	4,038025E-03
143	61,17559	4,038029E-03

144	62,15202	2,100146E-03
145	62,15205	2,100173E-03
146	57,2401	-1,26229E-03
147	57,24007	-1,262256E-03
148	62,45934	-2,311309E-03
149	62,45935	-2,311317E-03
150	59,86185	-5,60679E-04
151	59,86179	-5,606886E-04
152	64,14381	1,12178E-03
153	64,14382	1,121783E-03
154	61,30594	-4,421914E-04
155	61,3059	-4,42193E-04
156	62,78529	-1,740523E-04
157	62,78529	-1,740486E-04
158	57,77563	2,902695E-03
159	57,77562	2,902673E-03
160	54,75974	5,755479E-03
161	54,75973	5,755487E-03
162	49,92571	2,582969E-03
163	49,92574	2,582966E-03
164	44,99068	1,096753E-03
165	44,99068	1,096738E-03
166	44,80861	9,898407E-04
167	44,80862	9,898577E-04
168	38,66927	3,311472E-03
169	38,66927	3,31149E-03
170	42,66138	4,957519E-04
171	42,66137	4,957431E-04
172	37,08587	-2,175058E-03
173	37,08587	-2,175082E-03
174	39,85872	1,448863E-03
175	39,85871	1,448872E-03
176	36,1344	2,832572E-03
177	36,13442	2,832586E-03
178	37,16283	4,288216E-04
179	37,1628	4,288272E-04
180	35,64196	-2,473397E-03
181	35,64196	-2,473402E-03
182	41,30513	-3,317409E-03
183	41,30508	-3,317403E-03
184	41,01582	-1,273386E-03
185	41,01581	-1,273371E-03
186	45,52075	3,593096E-04
187	45,52074	3,59275E-04
188	41,46646	9,595116E-04
189	41,46646	9,594911E-04
190	42,94959	1,428967E-03
191	42,94964	1,428964E-03
192	38,71797	9,60463E-04
193	38,71796	9,604906E-04
194	42,70013	-1,254637E-03
195	42,70018	-1,254623E-03
196	40,50359	-2,195356E-03
197	40,5036	-2,195398E-03
198	46,57702	-1,456171E-03
199	46,57703	-1,456165E-03
200	46,57183	-2,03588E-03
201	46,57185	-2,035842E-03
202	52,44063	-2,636232E-03
203	52,44061	-2,636215E-03
204	54,92241	-3,782805E-03
205	54,9224	-3,782822E-03
206	55,81791	2,708569E-04
207	55,81791	2,708298E-04
208	59,95742	2,521599E-04
209	59,95742	2,521748E-04

210	58,41412	-2,074687E-03
211	58,41413	-2,074669E-03
212	62,00513	-1,681178E-03
213	62,00512	-1,681187E-03
214	61,14172	1,696664E-04
215	61,14172	1,696499E-04
216	63,6109	5,559708E-04
217	63,61089	5,559862E-04
218	61,59881	-4,860577E-04
219	61,59885	-4,86063E-04
220	63,18351	-2,582716E-04
221	63,1835	-2,582923E-04
222	58,53548	2,621094E-03
223	58,53552	2,621092E-03
224	58,19496	3,724489E-03
225	58,19497	3,724498E-03
226	54,34378	3,17873E-04
227	54,34378	3,179028E-04
228	56,87479	-2,788338E-03
229	56,87479	-2,788346E-03
230	56,11381	-0,001545
231	56,11375	-1,544987E-03
232	60,1731	4,734769E-04
233	60,17309	4,734886E-04
234	56,20081	1,482758E-03
235	56,20076	1,48274E-03
236	58,54284	6,588753E-04
237	58,54282	6,588716E-04
238	51,45053	1,836088E-03
239	51,4505	1,836097E-03
240	53,26957	3,004872E-03
241	53,26955	3,004876E-03
242	47,83064	7,009795E-04
243	47,83065	7,00947E-04
244	46,73186	1,561104E-03
245	46,73187	1,561074E-03
246	44,63128	1,529313E-03
247	44,63129	1,529337E-03
248	42,87079	1,132801E-03
249	42,87078	1,132853E-03
250	42,01257	2,988101E-04
251	42,01256	2,988106E-04
252	40,16121	7,573208E-04
253	40,16119	7,572779E-04
254	39,95804	1,13237E-03
255	39,95805	1,13236E-03
256	38,04244	7,208086E-04
257	38,04244	7,208301E-04
258	40,25879	-1,340725E-03
259	40,25877	-1,340699E-03
260	39,68414	-1,860603E-03
261	39,68415	-1,860632E-03
262	43,1798	-7,007109E-04
263	43,17976	-7,007264E-04
264	43,96002	-1,122942E-03
265	43,96004	-1,122918E-03
266	46,72835	-1,773258E-03
267	46,72834	-1,773265E-03
268	45,81184	-1,675284E-04
269	45,81185	-1,675475E-04
270	46,0958	2,207401E-03
271	46,09584	2,207375E-03
272	42,59152	2,412034E-03
273	42,59154	2,412047E-03
274	46,19619	-2,272597E-03
275	46,19623	-2,272572E-03

276	43,66944	-0,0031406
277	43,66945	-3,140603E-03
278	50,71891	-8,998613E-04
279	50,71894	-8,998751E-04
280	49,1223	-6,686091E-04
281	49,1223	-6,685979E-04
282	53,60872	-1,11764E-03
283	53,60875	-1,117624E-03
284	52,90823	-1,966519E-03
285	52,90821	-1,966513E-03
286	56,47403	-8,842933E-04
287	56,47404	-8,842847E-04
288	56,46062	-5,131663E-04
289	56,46061	-5,131743E-04
290	59,01638	-8,89098E-04
291	59,01638	-8,891044E-04
292	59,69102	-1,737279E-03
293	59,69103	-1,737295E-03
294	60,482	-1,340805E-04
295	60,48199	-1,340677E-04
296	61,63811	3,760817E-04
297	61,63808	3,761253E-04
298	60,02493	4,529621E-04
299	60,02494	4,529355E-04
300	59,53844	1,087061E-03
301	59,5384	1,087022E-03
302	56,78237	1,807362E-03
303	56,78241	1,807372E-03
304	55,42791	1,777492E-03
305	55,42788	1,777525E-03
306	54,19765	-5,627931E-07
307	54,19764	-5,452333E-07
308	53,85389	-6,764758E-04
309	53,85386	-6,765056E-04
310	53,56946	4,382078E-04
311	53,56943	4,382104E-04
312	56,35017	-1,064396E-03
313	56,35017	-1,064381E-03
314	53,45652	-3,555234E-04
315	53,45648	-3,555192E-04
316	55,34979	1,755039E-03
317	55,34982	1,755008E-03
318	49,75441	2,937512E-03
319	49,75439	2,937492E-03
320	50,589	1,559527E-03
321	50,589	1,559566E-03
322	46,34763	-5,453207E-04
323	46,34761	-5,452947E-04
324	48,60662	-1,764281E-04
325	48,60662	-1,76459E-04
326	44,50506	1,829808E-03
327	44,50505	1,829771E-03
328	45,52991	2,313809E-03
329	45,52991	2,313828E-03
330	41,79239	7,112337E-05
331	41,79241	7,113429E-05
332	41,82225	2,76205E-04
333	41,82225	2,76188E-04
334	40,55513	7,912482E-04
335	40,55515	7,91235E-04
336	40,40095	7,139576E-04
337	40,40096	7,139581E-04
338	41,44405	-1,40956E-03
339	41,44404	-1,409531E-03
340	42,57797	-2,228456E-03
341	42,57799	-2,228461E-03

342	44,33392	-6,083295E-04
343	44,33387	-6,08324E-04
344	46,77855	-7,054878E-04
345	46,77858	-7,054931E-04
346	46,93573	-1,204517E-03
347	46,93572	-1,204553E-03
348	47,52363	1,848403E-04
349	47,52367	1,848335E-04
350	47,87283	5,494158E-04
351	47,87288	5,494074E-04
352	46,38646	6,080329E-04
353	46,38648	6,080504E-04
354	48,09024	-7,00941E-04
355	48,09029	-7,009292E-04
356	47,36824	-1,289837E-03
357	47,36824	-1,289833E-03
358	51,24402	-1,499416E-03
359	51,24404	-1,49941E-03
360	50,80777	-1,10691E-03
361	50,80775	-1,106892E-03
362	54,95543	-1,092295E-03
363	54,95545	-1,092299E-03
364	52,17873	1,524635E-04

Trecho 2

x(DT) (s)	H(2 , 1 ,DT) (m)	Q(2 , 1 ,DT) (m3/s)
1	70,57977	0,02697
2	70,57976	0,02697
3	70,57977	0,02697
4	31,16451	2,115111E-03
5	31,16452	2,11511E-03
6	37,30985	-2,977932E-03
7	37,30986	-2,977929E-03
8	27,49487	4,750086E-04
9	27,49487	4,750135E-04
10	33,84952	5,32634E-03
11	33,84953	5,326346E-03
12	26,31224	3,786486E-04
13	26,31223	3,786481E-04
14	28,4005	-1,497047E-03
15	28,40049	-1,497043E-03
16	23,15159	1,827491E-03
17	23,15158	1,827489E-03
18	24,06686	4,498412E-03
19	24,06685	4,498409E-03
20	21,03543	-3,365376E-04
21	21,03543	-3,365461E-04
22	21,56334	-2,727924E-03
23	21,56333	-2,727922E-03
24	22,2492	-5,094681E-04
25	22,24921	-5,094624E-04
26	23,08496	1,656209E-03
27	23,08496	1,656204E-03
28	22,11737	6,011982E-04
29	22,11737	6,012022E-04
30	21,73775	-7,13471E-04
31	21,73775	-7,1347E-04
32	17,97514	2,286474E-03
33	17,97515	2,286463E-03
34	17,11739	3,924107E-03
35	17,11738	3,924111E-03
36	23,12318	-5,86133E-03
37	23,12319	-5,861324E-03
38	17,02776	-3,789466E-03
39	17,02775	-3,789471E-03

40	40,04282	-6,033762E-03
41	40,04282	-6,033759E-03
42	39,79604	-1,199204E-02
43	39,79602	-1,199203E-02
44	63,13668	-1,018551E-02
45	63,13668	-1,018552E-02
46	59,98063	-2,18631E-03
47	59,9806	-2,186309E-03
48	69,33315	5,665324E-03
49	69,33315	5,665321E-03
50	60,66836	1,729102E-03
51	60,66836	1,729087E-03
52	68,80533	-5,262625E-03
53	68,80534	-5,262624E-03
54	66,1702	-5,51491E-03
55	66,17021	-5,51489E-03
56	73,56001	1,873149E-03
57	73,56001	1,873142E-03
58	70,73515	2,298846E-03
59	70,73515	2,298839E-03
60	72,20457	-9,248105E-04
61	72,20458	-9,248132E-04
62	70,00789	-1,779539E-03
63	70,00789	-1,779528E-03
64	69,6284	2,714257E-03
65	69,6284	2,714273E-03
66	66,95933	3,894653E-03
67	66,95932	3,894641E-03
68	70,81458	-3,529135E-03
69	70,81458	-3,52915E-03
70	67,36907	-4,132675E-03
71	67,36909	-4,132673E-03
72	73,4499	1,649534E-03
73	73,44991	1,64955E-03
74	73,34429	-5,058101E-05
75	73,3443	-5,058364E-05
76	69,18582	1,326784E-03
77	69,18584	1,326768E-03
78	70,01301	2,366585E-03
79	70,01302	2,36658E-03
80	57,66338	6,710952E-03
81	57,66339	6,710974E-03
82	56,18972	7,227876E-03
83	56,18973	7,227876E-03
84	41,15593	4,889719E-03
85	41,15592	4,889711E-03
86	42,89977	2,074931E-03
87	42,89979	2,074929E-03
88	33,87253	2,360433E-04
89	33,87253	2,360502E-04
90	41,86578	-1,359415E-03
91	41,86576	-1,359388E-03
92	34,60295	-7,253524E-04
93	34,60295	-7,253516E-04
94	38,48524	3,690333E-03
95	38,4852	3,690322E-03
96	30,38109	3,675418E-03
97	30,38109	3,675421E-03
98	32,67241	3,681342E-04
99	32,6724	3,681227E-04
100	32,608	-5,197101E-03
101	32,60799	-5,197098E-03
102	36,01773	-2,697784E-03
103	36,01772	-2,69778E-03
104	35,70532	3,000014E-03
105	35,70531	3,000011E-03

106	40,14858	-1,990107E-04
107	40,14859	-1,990277E-04
108	34,56512	-2,174769E-03
109	34,5651	-2,17476E-03
110	38,35873	1,434491E-03
111	38,35876	1,434502E-03
112	33,38461	2,993056E-03
113	33,38459	2,993053E-03
114	34,40522	1,316533E-03
115	34,40524	1,316527E-03
116	35,20611	-4,244102E-03
117	35,20609	-4,244102E-03
118	38,33884	-4,047458E-03
119	38,33884	-4,047438E-03
120	45,23563	-2,775353E-03
121	45,23561	-2,77535E-03
122	48,24948	-2,875745E-03
123	48,24946	-2,875752E-03
124	57,24619	-5,606318E-03
125	57,24619	-5,606334E-03
126	56,62768	-2,951773E-03
127	56,62768	-2,951777E-03
128	64,45856	5,197387E-04
129	64,45855	5,197562E-04
130	58,45795	1,670136E-03
131	58,45798	1,670114E-03
132	65,10478	-9,788213E-04
133	65,10479	-9,788389E-04
134	60,79006	-3,269915E-03
135	60,7901	-3,269896E-03
136	67,08985	-4,205775E-04
137	67,08986	-4,205578E-04
138	66,21803	-5,242544E-04
139	66,21804	-5,242634E-04
140	66,43694	8,74706E-04
141	66,43696	8,74672E-04
142	61,17557	4,038025E-03
143	61,17559	4,038027E-03
144	62,15202	2,100147E-03
145	62,15205	2,100174E-03
146	57,2401	-1,26229E-03
147	57,24007	-1,262258E-03
148	62,45934	-2,311307E-03
149	62,45935	-2,311315E-03
150	59,86185	-5,606766E-04
151	59,86179	-5,60689E-04
152	64,14381	1,121777E-03
153	64,14382	1,121786E-03
154	61,30594	-4,421916E-04
155	61,3059	-4,421943E-04
156	62,78529	-1,740499E-04
157	62,78529	-1,740462E-04
158	57,77563	2,902697E-03
159	57,77562	2,902674E-03
160	54,75974	5,755478E-03
161	54,75973	5,755489E-03
162	49,92571	2,582969E-03
163	49,92574	2,582966E-03
164	44,99068	1,096752E-03
165	44,99068	1,096739E-03
166	44,80861	9,898405E-04
167	44,80862	9,898602E-04
168	38,66927	3,311472E-03
169	38,66927	3,31149E-03
170	42,66138	4,957538E-04
171	42,66137	4,957428E-04

172	37,08587	-2,175057E-03
173	37,08587	-2,175082E-03
174	39,85872	1,448864E-03
175	39,85871	1,448871E-03
176	36,1344	2,832572E-03
177	36,13442	2,832588E-03
178	37,16283	4,288208E-04
179	37,1628	4,288282E-04
180	35,64196	-2,473399E-03
181	35,64196	-0,0024734
182	41,30513	-3,317412E-03
183	41,30508	-3,317405E-03
184	41,01582	-1,273389E-03
185	41,01581	-1,273372E-03
186	45,52075	3,593121E-04
187	45,52074	3,592762E-04
188	41,46646	9,595128E-04
189	41,46646	9,594923E-04
190	42,94959	1,428966E-03
191	42,94964	1,428966E-03
192	38,71797	9,604618E-04
193	38,71796	9,604905E-04
194	42,70013	-1,254637E-03
195	42,70018	-1,254625E-03
196	40,50359	-2,195356E-03
197	40,5036	-2,195398E-03
198	46,57702	-1,456171E-03
199	46,57703	-1,456165E-03
200	46,57183	-2,035877E-03
201	46,57185	-2,03584E-03
202	52,44063	-2,63623E-03
203	52,44061	-2,636216E-03
204	54,92241	-3,782804E-03
205	54,9224	-3,78282E-03
206	55,81791	2,708565E-04
207	55,81791	2,70828E-04
208	59,95742	2,521607E-04
209	59,95742	2,521756E-04
210	58,41412	-2,074689E-03
211	58,41413	-2,074671E-03
212	62,00513	-1,681176E-03
213	62,00512	-1,681188E-03
214	61,14172	1,696684E-04
215	61,14172	1,696508E-04
216	63,6109	5,559725E-04
217	63,61089	5,559876E-04
218	61,59881	-4,860573E-04
219	61,59885	-4,860617E-04
220	63,18351	-2,582718E-04
221	63,1835	-2,582915E-04
222	58,53548	2,621093E-03
223	58,53552	2,621092E-03
224	58,19496	3,724487E-03
225	58,19497	3,724497E-03
226	54,34378	3,178722E-04
227	54,34378	3,17902E-04
228	56,87479	-2,788338E-03
229	56,87479	-2,788348E-03
230	56,11381	-1,544999E-03
231	56,11375	-1,544986E-03
232	60,1731	4,734751E-04
233	60,17309	4,734865E-04
234	56,20081	1,482758E-03
235	56,20076	1,482742E-03
236	58,54284	6,588743E-04
237	58,54282	6,588724E-04

238	51,45053	1,83609E-03
239	51,4505	1,836095E-03
240	53,26957	3,004874E-03
241	53,26955	3,004875E-03
242	47,83064	7,00981E-04
243	47,83065	7,00948E-04
244	46,73186	1,561104E-03
245	46,73187	1,561072E-03
246	44,63128	1,529314E-03
247	44,63129	1,529339E-03
248	42,87079	1,132801E-03
249	42,87078	1,132853E-03
250	42,01257	2,988101E-04
251	42,01256	2,988122E-04
252	40,16121	7,573184E-04
253	40,16119	7,572773E-04
254	39,95804	1,132372E-03
255	39,95805	1,132359E-03
256	38,04244	7,208103E-04
257	38,04244	7,208275E-04
258	40,25879	-1,340727E-03
259	40,25877	-1,340697E-03
260	39,68414	-1,860603E-03
261	39,68415	-1,860632E-03
262	43,1798	-7,007094E-04
263	43,17976	-7,007266E-04
264	43,96002	-1,122943E-03
265	43,96004	-1,122916E-03
266	46,72835	-1,77326E-03
267	46,72834	-1,773263E-03
268	45,81184	-1,675302E-04
269	45,81185	-1,675491E-04
270	46,0958	2,207401E-03
271	46,09584	2,207375E-03
272	42,59152	2,412036E-03
273	42,59154	2,412047E-03
274	46,19619	-2,272599E-03
275	46,19623	-2,272572E-03
276	43,66944	-3,140601E-03
277	43,66945	-3,140605E-03
278	50,71891	-8,998629E-04
279	50,71894	-8,998734E-04
280	49,1223	-6,686068E-04
281	49,1223	-6,685994E-04
282	53,60872	-1,117639E-03
283	53,60875	-1,117623E-03
284	52,90823	-1,966519E-03
285	52,90821	-1,966512E-03
286	56,47403	-8,84295E-04
287	56,47404	-8,842851E-04
288	56,46062	-5,131656E-04
289	56,46061	-5,131753E-04
290	59,01638	-8,890977E-04
291	59,01638	-8,891065E-04
292	59,69102	-1,737279E-03
293	59,69103	-1,737294E-03
294	60,482	-1,340793E-04
295	60,48199	-1,340655E-04
296	61,63811	3,760825E-04
297	61,63808	3,761266E-04
298	60,02493	4,52964E-04
299	60,02494	4,529377E-04
300	59,53844	1,087059E-03
301	59,5384	1,087019E-03
302	56,78237	1,807362E-03
303	56,78241	1,807369E-03

304	55,42791	1,777493E-03
305	55,42788	1,777526E-03
306	54,19765	-5,647958E-07
307	54,19764	-5,448495E-07
308	53,85389	-6,764772E-04
309	53,85386	-6,765052E-04
310	53,56946	4,382059E-04
311	53,56943	4,38209E-04
312	56,35017	-1,064398E-03
313	56,35017	-1,064379E-03
314	53,45652	-3,55523E-04
315	53,45648	-3,555172E-04
316	55,34979	1,755038E-03
317	55,34982	1,755008E-03
318	49,75441	2,937514E-03
319	49,75439	2,937493E-03
320	50,589	1,559529E-03
321	50,589	1,559567E-03
322	46,34763	-5,453196E-04
323	46,34761	-5,452955E-04
324	48,60662	-1,764284E-04
325	48,60662	-1,764588E-04
326	44,50506	1,829809E-03
327	44,50505	1,829773E-03
328	45,52991	2,313809E-03
329	45,52991	2,313829E-03
330	41,79239	7,112184E-05
331	41,79241	7,113573E-05
332	41,82225	2,762074E-04
333	41,82225	2,761858E-04
334	40,55513	7,912477E-04
335	40,55515	7,912337E-04
336	40,40095	7,1396E-04
337	40,40096	7,139566E-04
338	41,44405	-1,409562E-03
339	41,44404	-1,409531E-03
340	42,57797	-2,228458E-03
341	42,57799	-2,228459E-03
342	44,33392	-6,083311E-04
343	44,33387	-6,083257E-04
344	46,77855	-7,05489E-04
345	46,77858	-7,054953E-04
346	46,93573	-1,204516E-03
347	46,93572	-1,204551E-03
348	47,52363	1,848417E-04
349	47,52367	1,848346E-04
350	47,87283	5,494136E-04
351	47,87288	5,494057E-04
352	46,38646	6,080328E-04
353	46,38648	6,08051E-04
354	48,09024	-7,009426E-04
355	48,09029	-7,009291E-04
356	47,36824	-1,289837E-03
357	47,36824	-1,289835E-03
358	51,24402	-1,499418E-03
359	51,24404	-1,499411E-03
360	50,80777	-1,106908E-03
361	50,80775	-1,106891E-03
362	54,95543	-1,092294E-03
363	54,95545	-1,092301E-03
364	52,17873	1,524616E-04

x(DT) (s)	H(2 , 2 ,DT) (m)	Q(2 , 2 ,DT) (m3/s)
1	69,29993	0,02697
2	69,29993	0,02697

3	69,29993	0,02697
4	69,29994	0,02697
5	38,27652	-2,374617E-03
6	38,27652	-2,374617E-03
7	29,66929	1,849973E-03
8	29,66929	1,84998E-03
9	26,82463	8,97404E-04
10	26,82464	8,974085E-04
11	33,95493	5,22839E-03
12	33,95494	5,228399E-03
13	28,8448	-1,218521E-03
14	28,84479	-1,218521E-03
15	23,13904	1,823266E-03
16	23,13904	1,823269E-03
17	21,48121	2,877111E-03
18	21,4812	2,877109E-03
19	26,35893	3,030602E-03
20	26,35893	3,030591E-03
21	23,19817	-1,700218E-03
22	23,19816	-1,700217E-03
23	20,15674	-1,832682E-03
24	20,15674	-1,832682E-03
25	20,95005	3,100571E-04
26	20,95006	3,100613E-04
27	23,43347	1,433397E-03
28	23,43346	1,433398E-03
29	22,96965	6,33579E-05
30	22,96965	6,335883E-05
31	17,47478	1,975283E-03
32	17,4748	1,975275E-03
33	16,23313	3,379171E-03
34	16,23311	3,379173E-03
35	27,87295	-2,875339E-03
36	27,87296	-2,875342E-03
37	18,47024	-2,889113E-03
38	18,47025	-2,889103E-03
39	30,45931	-1,224335E-02
40	30,4593	-1,224335E-02
41	44,74643	-8,959426E-03
42	44,74642	-8,959415E-03
43	50,4635	-1,855928E-02
44	50,4635	-1,855928E-02
45	55,33061	-5,14797E-03
46	55,33059	-5,147961E-03
47	58,43675	-1,207456E-03
48	58,43675	-1,207468E-03
49	68,05715	6,434341E-03
50	68,05717	6,434335E-03
51	70,29461	-4,34444E-03
52	70,2946	-4,34445E-03
53	67,73042	-4,554068E-03
54	67,73041	-4,554055E-03
55	64,04892	-4,143502E-03
56	64,04894	-4,143494E-03
57	71,79914	2,979639E-03
58	71,79914	2,979632E-03
59	74,02123	2,208128E-04
60	74,02123	2,208054E-04
61	71,78509	-6,593365E-04
62	71,78508	-6,593316E-04
63	66,25746	5,889608E-04
64	66,25746	5,889719E-04
65	67,33627	4,151472E-03
66	67,3363	4,15148E-03
67	74,76094	-1,041802E-03
68	74,76094	-1,041817E-03

69	69,58795	-2,741813E-03
70	69,58794	-2,741823E-03
71	65,84851	-3,154873E-03
72	65,84851	-3,154862E-03
73	74,74213	8,316495E-04
74	74,74215	8,316537E-04
75	70,16959	1,95136E-03
76	70,16961	1,95135E-03
77	68,77119	1,586297E-03
78	68,77119	1,586285E-03
79	60,32548	8,469233E-03
80	60,32548	8,469243E-03
81	56,42836	7,439775E-03
82	56,42839	7,439786E-03
83	50,37752	1,083503E-02
84	50,37753	1,083503E-02
85	44,23116	2,923978E-03
86	44,23116	2,923965E-03
87	39,8263	4,008258E-03
88	39,8263	4,008267E-03
89	39,14254	-3,08724E-03
90	39,14252	-3,087217E-03
91	37,73187	1,249444E-03
92	37,73188	1,249454E-03
93	33,04327	2,587537E-04
94	33,04325	2,587595E-04
95	34,39862	6,252205E-03
96	34,39859	6,25219E-03
97	34,13577	1,292768E-03
98	34,13577	1,292766E-03
99	37,05786	-2,39744E-03
100	37,05783	-2,397443E-03
101	32,37708	-5,021518E-03
102	32,37707	-5,021515E-03
103	31,35004	2,536881E-04
104	31,35004	2,536887E-04
105	40,45556	-5,429692E-06
106	40,45557	-5,446221E-06
107	38,92319	5,737527E-04
108	38,92316	5,737579E-04
109	33,60643	-1,564982E-03
110	33,60643	-1,564986E-03
111	34,62143	3,788914E-03
112	34,62144	3,788933E-03
113	35,21342	1,829887E-03
114	35,21342	1,829869E-03
115	39,21581	-0,0017189
116	39,21581	-1,718892E-03
117	36,65562	-5,138168E-03
118	36,6556	-5,138163E-03
119	40,82051	-5,594205E-03
120	40,82052	-5,594187E-03
121	46,8415	-3,779452E-03
122	46,84149	-3,779454E-03
123	54,96457	-7,101038E-03
124	54,96456	-7,101055E-03
125	54,8744	-4,075812E-03
126	54,87438	-4,075822E-03
127	57,81016	-3,687766E-03
128	57,81014	-3,687758E-03
129	60,53798	2,991716E-03
130	60,53802	2,991705E-03
131	63,88199	-1,753313E-03
132	63,88201	-1,753323E-03
133	64,7654	-7,637482E-04
134	64,7654	-7,637583E-04

135	61,70303	-3,833764E-03
136	61,70305	-3,833734E-03
137	66,73634	-1,97457E-04
138	66,73637	-1,974539E-04
139	65,21847	1,063624E-04
140	65,21851	1,063384E-04
141	61,28239	4,124261E-03
142	61,28239	4,124245E-03
143	63,17932	2,756386E-03
144	63,17933	2,756397E-03
145	62,35487	1,967334E-03
146	62,35487	1,967383E-03
147	60,69329	-3,438073E-03
148	60,69331	-3,438073E-03
149	59,77754	-6,14262E-04
150	59,77752	-6,142513E-04
151	60,67009	-1,069992E-03
152	60,67004	-1,070018E-03
153	63,96251	1,234708E-03
154	63,9625	1,234727E-03
155	61,8337	-7,747765E-04
156	61,83368	-7,747895E-04
157	57,83326	2,948684E-03
158	57,83328	2,948678E-03
159	53,97366	5,290841E-03
160	53,97362	5,290835E-03
161	54,80058	5,692975E-03
162	54,80059	5,692966E-03
163	48,6206	3,39856E-03
164	48,62062	3,398559E-03
165	44,98229	1,100707E-03
166	44,98227	1,100709E-03
167	39,88248	4,095121E-03
168	39,88249	4,095144E-03
169	42,88792	6,390609E-04
170	42,88794	6,390662E-04
171	41,99037	9,186153E-04
172	41,99038	9,185918E-04
173	35,60436	-1,235587E-03
174	35,60434	-1,235593E-03
175	36,88786	3,319929E-03
176	36,88786	3,319931E-03
177	38,54601	1,302926E-03
178	38,54602	1,302953E-03
179	38,70368	-5,430304E-04
180	38,70368	-5,430373E-04
181	39,1675	-4,689784E-03
182	39,16747	-4,689765E-03
183	39,5537	-2,200765E-03
184	39,55366	-2,200763E-03
185	41,97823	-1,878479E-03
186	41,97827	-1,878491E-03
187	43,01428	1,939726E-03
188	43,01426	1,939697E-03
189	41,83452	7,263986E-04
190	41,83453	7,263709E-04
191	41,19783	2,531345E-03
192	41,19783	2,531379E-03
193	42,46634	-1,404249E-03
194	42,46637	-1,404246E-03
195	42,35009	-1,032155E-03
196	42,35016	-1,03216E-03
197	42,97078	-3,745797E-03
198	42,97076	-3,745816E-03
199	47,03862	-1,744901E-03
200	47,03862	-1,744881E-03

201	50,00138	-4,193917E-03
202	50,0014	-4,193879E-03
203	54,61081	-3,997016E-03
204	54,61082	-3,997021E-03
205	52,17221	-2,032678E-03
206	52,17221	-2,032701E-03
207	57,90339	-1,044305E-03
208	57,90335	-1,044313E-03
209	61,03085	-4,248034E-04
210	61,03085	-4,24791E-04
211	59,90938	-3,012809E-03
212	59,9094	-3,012799E-03
213	60,10857	-4,820852E-04
214	60,10857	-4,821025E-04
215	62,07013	-4,158164E-04
216	62,07011	-4,158108E-04
217	63,43042	6,694378E-04
218	63,43045	6,694283E-04
219	62,21142	-8,721024E-04
220	62,21145	-8,721007E-04
221	58,5703	2,650848E-03
222	58,5703	2,65082E-03
223	57,47481	3,282316E-03
224	57,47482	3,282337E-03
225	58,9491	3,233545E-03
226	58,94908	3,233565E-03
227	58,07578	-2,035604E-03
228	58,07581	-2,035594E-03
229	55,51854	-1,924475E-03
230	55,51849	-1,924455E-03
231	56,54799	-1,816143E-03
232	56,54796	-1,816147E-03
233	57,3821	2,233204E-03
234	57,38209	2,233213E-03
235	58,02306	3,312252E-04
236	58,02301	3,31208E-04
237	54,05217	3,490171E-03
238	54,05213	3,490174E-03
239	51,42735	1,846969E-03
240	51,42732	1,846971E-03
241	52,35773	3,569857E-03
242	52,35774	3,569833E-03
243	46,5969	1,478424E-03
244	46,5969	1,47839E-03
245	45,70034	2,208868E-03
246	45,70031	2,208861E-03
247	44,06024	1,886807E-03
248	44,06022	1,886857E-03
249	43,10098	9,862254E-04
250	43,101	9,862514E-04
251	40,72217	1,112427E-03
252	40,72219	1,112411E-03
253	39,76085	1,009151E-03
254	39,76081	1,009115E-03
255	39,32338	1,531161E-03
256	39,32336	1,531164E-03
257	40,78566	-1,009618E-03
258	40,78564	-1,009587E-03
259	40,38703	-1,419598E-03
260	40,38708	-1,419609E-03
261	40,52032	-2,384055E-03
262	40,5203	-2,38406E-03
263	43,90631	-1,158298E-03
264	43,90627	-1,158312E-03
265	45,86568	-2,323238E-03
266	45,86571	-2,323218E-03

267	45,00007	-6,799338E-04
268	45,00008	-6,799522E-04
269	44,06998	9,308997E-04
270	44,07001	9,308674E-04
271	44,16684	3,418379E-03
272	44,16684	3,41838E-03
273	48,10423	-1,070677E-03
274	48,10424	-1,070667E-03
275	45,62881	-1,909085E-03
276	45,62886	-1,909062E-03
277	45,44202	-4,247434E-03
278	45,44205	-4,247448E-03
279	49,73802	-2,804277E-04
280	49,73802	-2,804184E-04
281	51,72664	-2,310381E-03
282	51,72665	-2,310378E-03
283	53,93419	-1,321497E-03
284	53,93421	-1,32147E-03
285	53,84216	-2,551153E-03
286	53,84215	-2,55115E-03
287	56,17417	-6,943359E-04
288	56,17418	-6,943296E-04
289	58,03881	-1,508064E-03
290	58,03881	-1,508078E-03
291	60,02898	-1,526756E-03
292	60,02899	-1,52677E-03
293	58,81921	-1,184176E-03
294	58,81919	-1,184171E-03
295	60,65562	-2,435393E-04
296	60,65557	-2,43503E-04
297	60,76969	9,235491E-04
298	60,76973	9,235449E-04
299	59,27797	9,237594E-04
300	59,27797	9,237408E-04
301	57,5835	2,318512E-03
302	57,58347	2,318473E-03
303	56,12161	2,220405E-03
304	56,1216	2,220444E-03
305	56,2184	1,275511E-03
306	56,2184	1,275529E-03
307	54,56175	-2,301653E-04
308	54,56177	-2,301624E-04
309	52,82824	-2,920311E-05
310	52,82818	-2,921414E-05
311	56,15232	-1,190736E-03
312	56,15229	-1,190735E-03
313	54,34223	2,030482E-04
314	54,34222	2,030717E-04
315	52,72978	1,028925E-04
316	52,7298	1,028619E-04
317	51,59688	4,118172E-03
318	51,59687	4,118159E-03
319	51,25327	1,982775E-03
320	51,25322	1,982775E-03
321	50,13213	1,844926E-03
322	50,13213	1,844968E-03
323	47,18591	-1,073598E-03
324	47,18594	-1,073607E-03
325	44,96115	2,12241E-03
326	44,96114	2,122379E-03
327	44,62809	1,748517E-03
328	44,62804	1,748505E-03
329	45,42974	2,371037E-03
330	45,42976	2,371048E-03
331	41,64468	1,642616E-04
332	41,64471	1,64266E-04

333	40,77948	9,336888E-04
334	40,77948	9,336628E-04
335	40,5382	8,012243E-04
336	40,53821	8,012176E-04
337	42,60621	-6,772229E-04
338	42,60619	-6,772028E-04
339	42,66624	-2,178061E-03
340	42,66627	-2,178053E-03
341	42,17912	-1,971441E-03
342	42,1791	-1,971415E-03
343	45,6354	-1,428616E-03
344	45,6354	-1,428644E-03
345	47,25415	-1,004845E-03
346	47,25418	-1,004852E-03
347	46,12975	-6,946623E-04
348	46,12975	-6,946991E-04
349	47,40907	2,570463E-04
350	47,40911	2,57036E-04
351	47,08193	1,04781E-03
352	47,08195	1,047822E-03
353	48,27622	-5,840443E-04
354	48,27626	-5,840348E-04
355	48,19713	-7,678005E-04
356	48,19716	-7,677787E-04
357	49,47981	-2,619526E-03
358	49,47982	-2,619529E-03
359	50,71785	-1,165123E-03
360	50,71783	-1,165095E-03
361	52,8762	-2,409877E-03
362	52,87622	-2,409889E-03
363	52,58101	4,06316E-04
364	52,58103	4,063053E-04

Trecho 3

x(DT) (s)	H(3 , 1 ,DT) (m)	Q(3 , 1 ,DT) (m3/s)
1	69,29993	0,02697
2	69,29993	0,02697
3	69,29993	2,696999E-02
4	69,29994	0,02697
5	38,27652	-2,374618E-03
6	38,27652	-2,374614E-03
7	29,66929	1,849974E-03
8	29,66929	1,84998E-03
9	26,82463	8,974036E-04
10	26,82464	8,974091E-04
11	33,95493	5,22839E-03
12	33,95494	5,228401E-03
13	28,8448	-1,21852E-03
14	28,84479	-1,218522E-03
15	23,13904	1,823267E-03
16	23,13904	1,823269E-03
17	21,48121	2,877112E-03
18	21,4812	2,87711E-03
19	26,35893	3,030601E-03
20	26,35893	3,030592E-03
21	23,19817	-1,700218E-03
22	23,19816	-1,700218E-03
23	20,15674	-1,832681E-03
24	20,15674	-1,832681E-03
25	20,95005	3,100568E-04
26	20,95006	3,100602E-04
27	23,43347	1,433399E-03
28	23,43346	1,433397E-03
29	22,96965	6,335763E-05
30	22,96965	6,33595E-05

31	17,47478	1,975282E-03
32	17,4748	1,975275E-03
33	16,23313	3,379172E-03
34	16,23311	3,379172E-03
35	27,87295	-2,87534E-03
36	27,87296	-2,875342E-03
37	18,47024	-2,889113E-03
38	18,47025	-2,889104E-03
39	30,45931	-1,224335E-02
40	30,4593	-1,224335E-02
41	44,74643	-8,959425E-03
42	44,74642	-8,959416E-03
43	50,4635	-1,855928E-02
44	50,4635	-1,855928E-02
45	55,33061	-5,147969E-03
46	55,33059	-5,147961E-03
47	58,43675	-1,207458E-03
48	58,43675	-1,207469E-03
49	68,05715	6,434339E-03
50	68,05717	6,434338E-03
51	70,29461	-4,344445E-03
52	70,2946	-4,344452E-03
53	67,73042	-4,554062E-03
54	67,73041	-4,554054E-03
55	64,04892	-4,143506E-03
56	64,04894	-4,143499E-03
57	71,79914	2,979642E-03
58	71,79914	2,979627E-03
59	74,02123	2,208108E-04
60	74,02123	2,208033E-04
61	71,78509	-6,593341E-04
62	71,78508	-6,593338E-04
63	66,25746	5,889667E-04
64	66,25746	5,889742E-04
65	67,33627	4,151467E-03
66	67,3363	4,151481E-03
67	74,76094	-1,041799E-03
68	74,76094	-1,041821E-03
69	69,58795	-2,741813E-03
70	69,58794	-2,741828E-03
71	65,84851	-3,154877E-03
72	65,84851	-3,154862E-03
73	74,74213	8,316528E-04
74	74,74215	8,316596E-04
75	70,16959	1,951361E-03
76	70,16961	1,951353E-03
77	68,77119	1,586295E-03
78	68,77119	1,586287E-03
79	60,32548	8,469233E-03
80	60,32548	8,469241E-03
81	56,42836	7,439777E-03
82	56,42839	7,439787E-03
83	50,37752	1,083503E-02
84	50,37753	1,083503E-02
85	44,23116	2,923976E-03
86	44,23116	2,923965E-03
87	39,8263	4,008258E-03
88	39,8263	4,008265E-03
89	39,14254	-3,087241E-03
90	39,14252	-3,087214E-03
91	37,73187	1,249442E-03
92	37,73188	1,249456E-03
93	33,04327	2,587531E-04
94	33,04325	2,587611E-04
95	34,39862	6,252207E-03
96	34,39859	6,25219E-03

97	34,13577	1,292769E-03
98	34,13577	1,292764E-03
99	37,05786	-2,397438E-03
100	37,05783	-2,397441E-03
101	32,37708	-5,021519E-03
102	32,37707	-5,021514E-03
103	31,35004	2,536892E-04
104	31,35004	2,536893E-04
105	40,45556	-5,432529E-06
106	40,45557	-5,447781E-06
107	38,92319	5,737555E-04
108	38,92316	5,7376E-04
109	33,60643	-1,564979E-03
110	33,60643	-1,564983E-03
111	34,62143	3,788914E-03
112	34,62144	3,788936E-03
113	35,21342	1,829885E-03
114	35,21342	1,829867E-03
115	39,21581	-1,718899E-03
116	39,21581	-1,718891E-03
117	36,65562	-5,13817E-03
118	36,6556	-5,138166E-03
119	40,82051	-5,594203E-03
120	40,82052	-5,594189E-03
121	46,8415	-3,779454E-03
122	46,84149	-3,779453E-03
123	54,96457	-7,101037E-03
124	54,96456	-7,101056E-03
125	54,8744	-4,075813E-03
126	54,87438	-4,07582E-03
127	57,81016	-3,687764E-03
128	57,81014	-3,68776E-03
129	60,53798	2,991716E-03
130	60,53802	2,991703E-03
131	63,88199	-1,753313E-03
132	63,88201	-1,753324E-03
133	64,7654	-7,637435E-04
134	64,7654	-7,637545E-04
135	61,70303	-3,833764E-03
136	61,70305	-3,833731E-03
137	66,73634	-1,974621E-04
138	66,73637	-1,974481E-04
139	65,21847	1,063582E-04
140	65,21851	1,063384E-04
141	61,28239	4,124264E-03
142	61,28239	4,124245E-03
143	63,17932	2,756383E-03
144	63,17933	2,756394E-03
145	62,35487	1,967333E-03
146	62,35487	1,967386E-03
147	60,69329	-3,438075E-03
148	60,69331	-3,438072E-03
149	59,77754	-6,142609E-04
150	59,77752	-6,14249E-04
151	60,67009	-1,06999E-03
152	60,67004	-1,070019E-03
153	63,96251	1,234709E-03
154	63,9625	1,234724E-03
155	61,8337	-7,747794E-04
156	61,83368	-7,747897E-04
157	57,83326	2,948683E-03
158	57,83328	2,948679E-03
159	53,97366	5,290842E-03
160	53,97362	5,290836E-03
161	54,80058	5,692975E-03
162	54,80059	5,692967E-03

163	48,6206	3,398557E-03
164	48,62062	3,398561E-03
165	44,98229	1,10071E-03
166	44,98227	1,100707E-03
167	39,88248	4,095118E-03
168	39,88249	4,095144E-03
169	42,88792	6,390587E-04
170	42,88794	6,390657E-04
171	41,99037	9,186158E-04
172	41,99038	9,185933E-04
173	35,60436	-1,235587E-03
174	35,60434	-1,235593E-03
175	36,88786	3,319929E-03
176	36,88786	3,319932E-03
177	38,54601	1,302929E-03
178	38,54602	1,302951E-03
179	38,70368	-5,430323E-04
180	38,70368	-5,430396E-04
181	39,1675	-4,689781E-03
182	39,16747	-4,689765E-03
183	39,5537	-2,200763E-03
184	39,55366	-2,200765E-03
185	41,97823	-1,878478E-03
186	41,97827	-1,878493E-03
187	43,01428	1,939723E-03
188	43,01426	1,939694E-03
189	41,83452	7,263998E-04
190	41,83453	7,263697E-04
191	41,19783	2,531348E-03
192	41,19783	2,531381E-03
193	42,46634	-1,40425E-03
194	42,46637	-1,404247E-03
195	42,35009	-1,032155E-03
196	42,35016	-1,032157E-03
197	42,97078	-3,745799E-03
198	42,97076	-3,745817E-03
199	47,03862	-1,744902E-03
200	47,03862	-1,744883E-03
201	50,00138	-4,19392E-03
202	50,0014	-4,193876E-03
203	54,61081	-3,997013E-03
204	54,61082	-3,997021E-03
205	52,17221	-2,032679E-03
206	52,17221	-2,032701E-03
207	57,90339	-1,044305E-03
208	57,90335	-1,044315E-03
209	61,03085	-4,248061E-04
210	61,03085	-4,247913E-04
211	59,90938	-3,01281E-03
212	59,9094	-0,0030128
213	60,10857	-4,820873E-04
214	60,10857	-4,821023E-04
215	62,07013	-4,158176E-04
216	62,07011	-4,158093E-04
217	63,43042	6,694394E-04
218	63,43045	6,694274E-04
219	62,21142	-8,72104E-04
220	62,21145	-8,721011E-04
221	58,5703	2,650845E-03
222	58,5703	2,650819E-03
223	57,47481	3,282319E-03
224	57,47482	3,282337E-03
225	58,9491	3,233547E-03
226	58,94908	3,233566E-03
227	58,07578	-2,035603E-03
228	58,07581	-2,035592E-03

229	55,51854	-1,924474E-03
230	55,51849	-1,924457E-03
231	56,54799	-1,816143E-03
232	56,54796	-1,816149E-03
233	57,3821	2,233204E-03
234	57,38209	2,233216E-03
235	58,02306	3,312274E-04
236	58,02301	3,312065E-04
237	54,05217	3,490169E-03
238	54,05213	3,490174E-03
239	51,42735	1,846968E-03
240	51,42732	1,846972E-03
241	52,35773	3,569857E-03
242	52,35774	3,569835E-03
243	46,5969	1,478422E-03
244	46,5969	1,478392E-03
245	45,70034	2,208869E-03
246	45,70031	2,208859E-03
247	44,06024	1,886809E-03
248	44,06022	1,886854E-03
249	43,10098	9,862282E-04
250	43,101	9,862498E-04
251	40,72217	1,112429E-03
252	40,72219	1,11241E-03
253	39,76085	1,009149E-03
254	39,76081	1,009113E-03
255	39,32338	1,531161E-03
256	39,32336	1,531165E-03
257	40,78566	-1,009619E-03
258	40,78564	-1,009585E-03
259	40,38703	-0,0014196
260	40,38708	-1,419609E-03
261	40,52032	-2,384054E-03
262	40,5203	-2,384061E-03
263	43,90631	-1,158297E-03
264	43,90627	-1,158311E-03
265	45,86568	-2,323236E-03
266	45,86571	-2,323218E-03
267	45,00007	-6,799356E-04
268	45,00008	-6,799546E-04
269	44,06998	9,309023E-04
270	44,07001	9,308678E-04
271	44,16684	3,418381E-03
272	44,16684	3,418381E-03
273	48,10423	-1,07068E-03
274	48,10424	-1,070666E-03
275	45,62881	-1,909086E-03
276	45,62886	-1,909061E-03
277	45,44202	-4,247435E-03
278	45,44205	-4,247451E-03
279	49,73802	-2,804298E-04
280	49,73802	-2,804186E-04
281	51,72664	-2,31038E-03
282	51,72665	-2,310376E-03
283	53,93419	-1,321496E-03
284	53,93421	-1,32147E-03
285	53,84216	-2,551151E-03
286	53,84215	-2,551151E-03
287	56,17417	-6,94334E-04
288	56,17418	-6,943305E-04
289	58,03881	-1,508067E-03
290	58,03881	-1,508078E-03
291	60,02898	-1,526758E-03
292	60,02899	-1,526773E-03
293	58,81921	-1,184176E-03
294	58,81919	-1,184168E-03

295	60,65562	-2,435412E-04
296	60,65557	-2,435026E-04
297	60,76969	9,2355E-04
298	60,76973	9,23545E-04
299	59,27797	9,237579E-04
300	59,27797	9,237393E-04
301	57,5835	2,318512E-03
302	57,58347	2,318476E-03
303	56,12161	2,220407E-03
304	56,1216	2,220445E-03
305	56,2184	1,275513E-03
306	56,2184	1,275528E-03
307	54,56175	-2,301675E-04
308	54,56177	-2,301607E-04
309	52,82824	-2,920324E-05
310	52,82818	-2,921651E-05
311	56,15232	-1,190737E-03
312	56,15229	-1,190736E-03
313	54,34223	2,03049E-04
314	54,34222	2,030716E-04
315	52,72978	1,028909E-04
316	52,7298	1,028606E-04
317	51,59688	4,118173E-03
318	51,59687	4,118158E-03
319	51,25327	1,982775E-03
320	51,25322	1,982777E-03
321	50,13213	1,844925E-03
322	50,13213	1,844966E-03
323	47,18591	-1,073601E-03
324	47,18594	-1,073609E-03
325	44,96115	2,122408E-03
326	44,96114	2,122379E-03
327	44,62809	1,748515E-03
328	44,62804	1,748505E-03
329	45,42974	2,371036E-03
330	45,42976	2,371046E-03
331	41,64468	1,642619E-04
332	41,64471	1,642646E-04
333	40,77948	9,336859E-04
334	40,77948	9,336635E-04
335	40,5382	8,01225E-04
336	40,53821	8,012173E-04
337	42,60621	-6,772211E-04
338	42,60619	-6,772054E-04
339	42,66624	-2,17806E-03
340	42,66627	-2,178053E-03
341	42,17912	-1,971443E-03
342	42,1791	-1,971413E-03
343	45,6354	-1,428617E-03
344	45,6354	-1,428647E-03
345	47,25415	-1,004843E-03
346	47,25418	-1,004851E-03
347	46,12975	-6,946636E-04
348	46,12975	-6,94697E-04
349	47,40907	2,570483E-04
350	47,40911	2,570357E-04
351	47,08193	1,047808E-03
352	47,08195	1,047822E-03
353	48,27622	-5,840467E-04
354	48,27626	-5,840367E-04
355	48,19713	-7,678031E-04
356	48,19716	-7,677816E-04
357	49,47981	-2,619524E-03
358	49,47982	-2,619531E-03
359	50,71785	-1,165125E-03
360	50,71783	-1,165095E-03

361	52,8762	-2,409876E-03
362	52,87622	-2,409891E-03
363	52,58101	4,063161E-04
364	52,58103	4,063042E-04

x(DT) (s)	H(3 , 2 ,DT) (m)	Q(3 , 2 ,DT) (m3/s)
1	68,44672	0,02697
2	68,44672	0,02697
3	68,44672	0,02697
4	68,44671	2,696999E-02
5	68,44672	0,02697
6	31,73451	3,819627E-03
7	31,73452	3,819633E-03
8	28,74414	2,721258E-03
9	28,74415	2,721265E-03
10	28,09999	-3,09828E-04
11	28,09999	-3,098206E-04
12	34,78026	4,417397E-03
13	34,78026	4,417408E-03
14	24,37959	3,006713E-03
15	24,37958	3,006709E-03
16	21,74533	3,137867E-03
17	21,74533	3,13787E-03
18	23,83384	6,4261E-04
19	23,83384	6,426008E-04
20	27,27117	2,157536E-03
21	27,27116	2,157537E-03
22	21,74924	-3,264814E-04
23	21,74923	-3,264853E-04
24	19,42346	-1,135352E-03
25	19,42346	-1,135356E-03
26	21,59795	-3,028957E-04
27	21,59796	-3,028863E-04
28	23,92402	9,671169E-04
29	23,92402	9,67113E-04
30	19,20386	3,625368E-03
31	19,20387	3,62536E-03
32	16,1033	3,268221E-03
33	16,1033	3,26823E-03
34	25,36883	-5,274829E-03
35	25,36882	-5,274836E-03
36	23,18228	1,570675E-03
37	23,18228	1,570675E-03
38	29,51859	-1,333033E-02
39	29,51859	-1,333031E-02
40	36,13336	-1,744403E-02
41	36,13334	-1,744403E-02
42	52,88763	-1,657101E-02
43	52,88763	-1,657101E-02
44	46,12597	-0,0140743
45	46,12595	-1,407428E-02
46	54,8289	-4,644003E-03
47	54,8289	-4,64401E-03
48	59,21052	-1,937735E-03
49	59,21052	-1,93775E-03
50	74,84932	-3,621136E-05
51	74,84933	-3,620368E-05
52	69,14051	-3,231859E-03
53	69,1405	-3,23186E-03
54	65,68877	-2,599893E-03
55	65,68878	-2,599897E-03
56	64,17935	-4,24783E-03
57	64,17937	-4,247825E-03
58	74,36314	5,445407E-04
59	74,36314	5,445332E-04

60	73,36797	8,386713E-04
61	73,36796	8,386711E-04
62	68,35776	2,583011E-03
63	68,35775	2,583011E-03
64	64,91148	1,861731E-03
65	64,91148	1,861732E-03
66	73,78596	-1,96832E-03
67	73,78599	-1,968312E-03
68	73,07354	5,554953E-04
69	73,07353	5,554801E-04
70	67,9418	-0,0011764
71	67,94178	-1,176401E-03
72	68,21082	-5,378311E-03
73	68,21084	-5,37831E-03
74	71,85613	3,560706E-03
75	71,85616	3,560707E-03
76	69,65766	2,431355E-03
77	69,65768	2,431356E-03
78	60,86029	9,066304E-03
79	60,86029	9,066312E-03
80	58,82257	9,811232E-03
81	58,82258	9,811222E-03
82	51,49059	1,204894E-02
83	51,49061	1,204895E-02
84	51,36127	9,774254E-03
85	51,36129	9,774254E-03
86	41,43242	5,561782E-03
87	41,4324	5,561781E-03
88	43,22536	7,753061E-04
89	43,22534	7,753352E-04
90	36,15044	-2,464763E-04
91	36,15044	-2,464727E-04
92	35,90514	2,975583E-03
93	35,90514	2,975606E-03
94	30,54872	2,618243E-03
95	30,5487	2,618246E-03
96	36,85701	3,883482E-03
97	36,85698	3,883456E-03
98	37,5487	-1,937325E-03
99	37,54868	-1,937318E-03
100	36,10925	-1,493786E-03
101	36,10923	-1,493791E-03
102	29,09194	-1,886168E-03
103	29,09193	-1,886172E-03
104	36,05005	-4,192048E-03
105	36,05006	-4,192062E-03
106	39,38261	1,009453E-03
107	39,3826	1,009463E-03
108	37,39277	2,020993E-03
109	37,39276	2,020982E-03
110	31,28504	6,335118E-04
111	31,28503	6,335153E-04
112	35,94082	2,524998E-03
113	35,94085	2,525006E-03
114	39,09054	-1,841147E-03
115	39,09053	-1,841152E-03
116	39,74778	-2,218805E-03
117	39,74777	-2,218791E-03
118	39,02631	-7,351276E-03
119	39,02629	-7,351278E-03
120	42,9235	-7,548661E-03
121	42,9235	-7,548645E-03
122	52,71819	-9,322278E-03
123	52,71819	-9,322289E-03
124	53,36787	-5,534802E-03
125	53,36786	-5,53481E-03

126	56,16323	-5,276469E-03
127	56,1632	-5,276466E-03
128	55,65281	-1,632062E-03
129	55,65282	-1,632095E-03
130	64,71353	-9,678092E-04
131	64,71356	-9,678082E-04
132	63,80406	-1,676185E-03
133	63,80406	-1,676185E-03
134	64,85781	-8,505032E-04
135	64,8578	-8,505073E-04
136	62,31748	-4,398659E-03
137	62,31752	-4,398639E-03
138	65,81656	6,725854E-04
139	65,81661	6,725796E-04
140	61,11722	3,985655E-03
141	61,11724	3,985656E-03
142	62,94017	2,53732E-03
143	62,94016	2,537308E-03
144	63,1753	2,751763E-03
145	63,17528	2,751796E-03
146	64,37914	4,831722E-05
147	64,37917	4,833328E-05
148	58,75114	-1,587911E-03
149	58,75114	-1,587881E-03
150	60,46587	-1,264927E-03
151	60,46586	-1,264928E-03
152	61,09997	-1,475345E-03
153	61,09992	-1,475365E-03
154	63,95854	1,236773E-03
155	63,95854	1,236784E-03
156	57,86037	2,984204E-03
157	57,86036	2,984178E-03
158	54,63945	5,960021E-03
159	54,63944	5,960039E-03
160	54,14288	5,099721E-03
161	54,14287	5,099687E-03
162	52,87159	7,481617E-03
163	52,8716	7,481613E-03
164	48,00007	3,972694E-03
165	48,00007	3,972712E-03
166	40,83402	5,023158E-03
167	40,834	5,023157E-03
168	43,20174	9,368702E-04
169	43,20176	9,36882E-04
170	42,29028	1,203904E-03
171	42,29031	1,203901E-03
172	39,93078	2,865821E-03
173	39,93076	2,865824E-03
174	33,83883	4,360998E-04
175	33,83881	4,360881E-04
176	38,77531	1,522388E-03
177	38,7753	1,522399E-03
178	39,59958	3,044887E-04
179	39,5996	3,045004E-04
180	41,13248	-2,840074E-03
181	41,13246	-2,84006E-03
182	38,06549	-3,623002E-03
183	38,06546	-3,622991E-03
184	40,60441	-3,189243E-03
185	40,60442	-3,189288E-03
186	40,48013	-4,575268E-04
187	40,48014	-4,575263E-04
188	43,06146	1,890916E-03
189	43,06146	1,890875E-03
190	40,55957	1,931771E-03
191	40,55954	1,931777E-03

192	43,9087	-3,994345E-05
193	43,90873	-3,993879E-05
194	42,21347	-1,162875E-03
195	42,21353	-1,162896E-03
196	44,09974	-2,685942E-03
197	44,09977	-2,685908E-03
198	43,96806	-4,673539E-03
199	43,96803	-4,673547E-03
200	49,8276	-4,379578E-03
201	49,82759	-4,379556E-03
202	52,23551	-6,287641E-03
203	52,23555	-6,287621E-03
204	52,36454	-1,854569E-03
205	52,36456	-1,85458E-03
206	54,52839	-4,256772E-03
207	54,52837	-4,256769E-03
208	59,14317	-2,215786E-03
209	59,14314	-2,215802E-03
210	61,83908	-0,0011891
211	61,8391	-1,189099E-03
212	58,67852	-1,838493E-03
213	58,67855	-1,838484E-03
214	61,05557	-1,377584E-03
215	61,05555	-1,377574E-03
216	62,17686	-5,16582E-04
217	62,17688	-5,166077E-04
218	63,6354	4,750624E-04
219	63,63541	4,750593E-04
220	58,52504	2,615632E-03
221	58,52508	2,61563E-03
222	57,6775	3,487536E-03
223	57,67749	3,487528E-03
224	58,22758	2,558332E-03
225	58,22758	2,558365E-03
226	61,29101	1,006765E-03
227	61,29102	1,006758E-03
228	56,74119	-7,686425E-04
229	56,74118	-7,685907E-04
230	55,98144	-2,35821E-03
231	55,98141	-2,358211E-03
232	54,8265	-1,841441E-04
233	54,82647	-1,841524E-04
234	58,70449	9,768426E-04
235	58,70448	9,768571E-04
236	54,35926	3,79664E-03
237	54,3592	3,796623E-03
238	53,59224	3,911687E-03
239	53,59221	3,91169E-03
240	50,97679	2,269362E-03
241	50,9768	2,269332E-03
242	50,55917	5,256944E-03
243	50,55919	5,256922E-03
244	45,7582	2,269312E-03
245	45,75817	2,269311E-03
246	45,04299	2,825231E-03
247	45,04293	2,825245E-03
248	44,05247	1,890204E-03
249	44,05249	1,890215E-03
250	41,84151	2,176457E-03
251	41,84156	2,176462E-03
252	40,29403	1,51603E-03
253	40,29403	1,516026E-03
254	39,2643	1,477698E-03
255	39,26425	1,477674E-03
256	41,39632	-4,322114E-04
257	41,39629	-4,3219E-04

258	40,80428	-1,026098E-03
259	40,80432	-1,026116E-03
260	40,96694	-1,965894E-03
261	40,96695	-1,965868E-03
262	41,57539	-3,375721E-03
263	41,57536	-3,375722E-03
264	45,50676	-2,670652E-03
265	45,50673	-2,670683E-03
266	44,56808	-1,089865E-03
267	44,56812	-1,08986E-03
268	43,68361	5,657979E-04
269	43,68364	5,657616E-04
270	42,80034	2,130873E-03
271	42,80034	2,130869E-03
272	48,5019	-6,950601E-04
273	48,5019	-6,950599E-04
274	47,31043	-3,185723E-04
275	47,31046	-3,185677E-04
276	46,77887	-2,99287E-03
277	46,77893	-2,992853E-03
278	45,51445	-4,295925E-03
279	45,51445	-4,295917E-03
280	51,80836	-2,238643E-03
281	51,80836	-2,238639E-03
282	52,31562	-2,861567E-03
283	52,31562	-2,861556E-03
284	54,54131	-1,893819E-03
285	54,54132	-1,893793E-03
286	54,03482	-2,726164E-03
287	54,03482	-2,726171E-03
288	57,53923	-1,984989E-03
289	57,53924	-1,984985E-03
290	59,04866	-2,460743E-03
291	59,04866	-2,460765E-03
292	59,24473	-7,823635E-04
293	59,24471	-7,823528E-04
294	59,24248	-1,582986E-03
295	59,24243	-1,58295E-03
296	60,09571	2,861337E-04
297	60,09573	2,861083E-04
298	60,02166	1,630152E-03
299	60,02169	1,630161E-03
300	57,68951	2,42531E-03
301	57,6895	2,425302E-03
302	56,89611	2,962738E-03
303	56,89605	2,962728E-03
304	56,66489	1,701053E-03
305	56,6649	1,701075E-03
306	56,18403	1,306217E-03
307	56,18404	1,306218E-03
308	53,58852	6,904633E-04
309	53,58851	6,904929E-04
310	55,10707	-2,18472E-03
311	55,10702	-2,184737E-03
312	54,51127	3,630832E-04
313	54,51124	3,63086E-04
314	53,58843	9,160122E-04
315	53,58847	9,159946E-04
316	50,03671	2,650219E-03
317	50,03671	2,650208E-03
318	52,53787	3,209286E-03
319	52,53783	3,209303E-03
320	50,75975	2,445221E-03
321	50,75971	2,445216E-03
322	50,19791	1,778924E-03
323	50,19796	1,778929E-03

324	44,38332	1,578611E-03
325	44,38334	1,578607E-03
326	44,98705	2,092911E-03
327	44,98701	2,092914E-03
328	44,6964	1,680509E-03
329	44,69637	1,680478E-03
330	44,69493	3,059842E-03
331	44,69496	3,059839E-03
332	40,8048	9,586593E-04
333	40,80483	9,586677E-04
334	40,72778	9,816138E-04
335	40,72778	9,81595E-04
336	42,35384	-9,168687E-04
337	42,35382	-9,168506E-04
338	43,43109	-1,456955E-03
339	43,4311	-1,456969E-03
340	42,31824	-1,843628E-03
341	42,31823	-1,843584E-03
342	43,62914	-3,338677E-03
343	43,62915	-3,338688E-03
344	46,22427	-1,983357E-03
345	46,22427	-1,983394E-03
346	46,52864	-3,174728E-04
347	46,52867	-3,174755E-04
348	46,26701	-8,23961E-04
349	46,26702	-8,240091E-04
350	46,82708	8,074702E-04
351	46,8271	8,074856E-04
352	48,5411	-3,336219E-04
353	48,54113	-3,336209E-04
354	48,33425	-6,385568E-04
355	48,33428	-6,385374E-04
356	49,82076	-2,302913E-03
357	49,82079	-2,302893E-03
358	49,33765	-2,477443E-03
359	49,33763	-2,477422E-03
360	52,46044	-2,811911E-03
361	52,46046	-2,811917E-03
362	51,24379	-8,593619E-04
363	51,24381	-8,593762E-04
364	54,0082	-9,438255E-04

Trecho 4

x(DT) (s)	H(4 , 1 ,DT) (m)	Q(4 , 1 ,DT) (m3/s)
1	68,44672	0,02697
2	68,44672	0,02697
3	68,44672	0,02697
4	68,44671	2,696999E-02
5	68,44672	0,02697
6	31,73451	3,819628E-03
7	31,73452	3,819634E-03
8	28,74414	2,721259E-03
9	28,74415	2,721265E-03
10	28,09999	-3,098286E-04
11	28,09999	-3,098211E-04
12	34,78026	4,417398E-03
13	34,78026	4,417408E-03
14	24,37959	3,006714E-03
15	24,37958	3,006708E-03
16	21,74533	3,137866E-03
17	21,74533	3,137871E-03
18	23,83384	6,426107E-04
19	23,83384	6,426016E-04
20	27,27117	2,157535E-03
21	27,27116	2,157538E-03

22	21,74924	-3,264827E-04
23	21,74923	-3,264844E-04
24	19,42346	-1,135352E-03
25	19,42346	-1,135355E-03
26	21,59795	-3,028947E-04
27	21,59796	-3,02887E-04
28	23,92402	9,671157E-04
29	23,92402	9,671121E-04
30	19,20386	3,625367E-03
31	19,20387	3,625359E-03
32	16,1033	3,26822E-03
33	16,1033	3,26823E-03
34	25,36883	-5,274829E-03
35	25,36882	-5,274837E-03
36	23,18228	1,570675E-03
37	23,18228	1,570676E-03
38	29,51859	-1,333033E-02
39	29,51859	-1,333032E-02
40	36,13336	-1,744403E-02
41	36,13334	-1,744403E-02
42	52,88763	-0,016571
43	52,88763	-0,016571
44	46,12597	-0,0140743
45	46,12595	-1,407429E-02
46	54,8289	-4,644006E-03
47	54,8289	-4,644013E-03
48	59,21052	-1,937734E-03
49	59,21052	-1,937749E-03
50	74,84932	-3,621107E-05
51	74,84933	-3,620253E-05
52	69,14051	-3,23186E-03
53	69,1405	-3,231863E-03
54	65,68877	-2,599892E-03
55	65,68878	-2,599892E-03
56	64,17935	-4,247832E-03
57	64,17937	-4,247825E-03
58	74,36314	5,445444E-04
59	74,36314	5,44537E-04
60	73,36797	8,386695E-04
61	73,36796	8,386684E-04
62	68,35776	2,583017E-03
63	68,35775	2,583012E-03
64	64,91148	1,861726E-03
65	64,91148	1,861731E-03
66	73,78596	-1,968319E-03
67	73,78599	-1,968311E-03
68	73,07354	5,55494E-04
69	73,07353	5,554743E-04
70	67,9418	-1,176404E-03
71	67,94178	-1,176396E-03
72	68,21082	-5,378305E-03
73	68,21084	-5,378311E-03
74	71,85613	3,560704E-03
75	71,85616	3,560709E-03
76	69,65766	2,431354E-03
77	69,65768	2,431353E-03
78	60,86029	9,066302E-03
79	60,86029	9,066313E-03
80	58,82257	9,811234E-03
81	58,82258	9,811219E-03
82	51,49059	1,204894E-02
83	51,49061	1,204895E-02
84	51,36127	9,774253E-03
85	51,36129	9,774255E-03
86	41,43242	5,561783E-03
87	41,4324	5,561781E-03

88	43,22536	7,753085E-04
89	43,22534	7,75335E-04
90	36,15044	-2,464745E-04
91	36,15044	-2,464713E-04
92	35,90514	2,975581E-03
93	35,90514	2,975605E-03
94	30,54872	2,618242E-03
95	30,5487	2,618246E-03
96	36,85701	3,883485E-03
97	36,85698	3,883453E-03
98	37,5487	-1,937327E-03
99	37,54868	-1,93732E-03
100	36,10925	-1,493789E-03
101	36,10923	-1,493792E-03
102	29,09194	-1,886167E-03
103	29,09193	-1,886172E-03
104	36,05005	-4,192047E-03
105	36,05006	-4,192065E-03
106	39,38261	1,009455E-03
107	39,3826	1,009464E-03
108	37,39277	2,020994E-03
109	37,39276	2,020982E-03
110	31,28504	6,335122E-04
111	31,28503	6,335167E-04
112	35,94082	2,524995E-03
113	35,94085	2,525009E-03
114	39,09054	-1,841145E-03
115	39,09053	-1,841149E-03
116	39,74778	-2,218803E-03
117	39,74777	-2,21879E-03
118	39,02631	-7,351278E-03
119	39,02629	-7,35128E-03
120	42,9235	-7,548663E-03
121	42,9235	-7,548646E-03
122	52,71819	-9,322275E-03
123	52,71819	-9,322287E-03
124	53,36787	-5,534804E-03
125	53,36786	-5,534812E-03
126	56,16323	-5,276469E-03
127	56,1632	-5,276468E-03
128	55,65281	-1,63206E-03
129	55,65282	-1,632096E-03
130	64,71353	-9,678135E-04
131	64,71356	-9,678054E-04
132	63,80406	-1,676186E-03
133	63,80406	-1,676183E-03
134	64,85781	-8,505056E-04
135	64,8578	-8,505115E-04
136	62,31748	-4,398657E-03
137	62,31752	-4,398641E-03
138	65,81656	6,725832E-04
139	65,81661	6,725833E-04
140	61,11722	3,985657E-03
141	61,11724	3,985655E-03
142	62,94017	2,537318E-03
143	62,94016	2,537307E-03
144	63,1753	2,751764E-03
145	63,17528	2,751797E-03
146	64,37914	4,831441E-05
147	64,37917	4,833846E-05
148	58,75114	-1,587909E-03
149	58,75114	-1,587881E-03
150	60,46587	-1,264925E-03
151	60,46586	-1,264929E-03
152	61,09997	-1,475342E-03
153	61,09992	-1,475362E-03

154	63,95854	1,236771E-03
155	63,95854	1,236784E-03
156	57,86037	2,984204E-03
157	57,86036	2,984181E-03
158	54,63945	5,960023E-03
159	54,63944	5,960039E-03
160	54,14288	5,099724E-03
161	54,14287	5,099689E-03
162	52,87159	7,481617E-03
163	52,8716	7,481613E-03
164	48,00007	3,972692E-03
165	48,00007	3,972711E-03
166	40,83402	5,023159E-03
167	40,834	5,023157E-03
168	43,20174	9,36868E-04
169	43,20176	9,368838E-04
170	42,29028	1,203904E-03
171	42,29031	0,0012039
172	39,93078	2,865819E-03
173	39,93076	2,865823E-03
174	33,83883	4,36097E-04
175	33,83881	4,360906E-04
176	38,77531	1,52239E-03
177	38,7753	1,522396E-03
178	39,59958	3,04486E-04
179	39,5996	3,045012E-04
180	41,13248	-2,840074E-03
181	41,13246	-2,840057E-03
182	38,06549	-3,623005E-03
183	38,06546	-3,622993E-03
184	40,60441	-3,189245E-03
185	40,60442	-3,189287E-03
186	40,48013	-4,575253E-04
187	40,48014	-4,575269E-04
188	43,06146	1,890915E-03
189	43,06146	1,890878E-03
190	40,55957	1,931772E-03
191	40,55954	1,931776E-03
192	43,9087	-3,994608E-05
193	43,90873	-3,993988E-05
194	42,21347	-1,162876E-03
195	42,21353	-1,162893E-03
196	44,09974	-2,685941E-03
197	44,09977	-2,685908E-03
198	43,96806	-4,673541E-03
199	43,96803	-4,673545E-03
200	49,8276	-4,379579E-03
201	49,82759	-4,379554E-03
202	52,23551	-6,287641E-03
203	52,23555	-6,287619E-03
204	52,36454	-1,854568E-03
205	52,36456	-1,854577E-03
206	54,52839	-4,25677E-03
207	54,52837	-4,25677E-03
208	59,14317	-2,215785E-03
209	59,14314	-2,215802E-03
210	61,83908	-1,189098E-03
211	61,8391	-1,189097E-03
212	58,67852	-1,838493E-03
213	58,67855	-1,838485E-03
214	61,05557	-1,377584E-03
215	61,05555	-1,377572E-03
216	62,17686	-5,1658E-04
217	62,17688	-5,166063E-04
218	63,6354	4,750649E-04
219	63,63541	4,750583E-04

220	58,52504	2,615632E-03
221	58,52508	2,615631E-03
222	57,6775	3,487534E-03
223	57,67749	3,487527E-03
224	58,22758	2,558333E-03
225	58,22758	2,558363E-03
226	61,29101	1,006768E-03
227	61,29102	1,006756E-03
228	56,74119	-7,686445E-04
229	56,74118	-7,685921E-04
230	55,98144	-2,35821E-03
231	55,98141	-2,358211E-03
232	54,8265	-1,841468E-04
233	54,82647	-1,841548E-04
234	58,70449	9,768426E-04
235	58,70448	9,768577E-04
236	54,35926	3,796641E-03
237	54,3592	3,796622E-03
238	53,59224	3,911685E-03
239	53,59221	3,911692E-03
240	50,97679	2,269362E-03
241	50,9768	2,269332E-03
242	50,55917	5,256945E-03
243	50,55919	5,256925E-03
244	45,7582	2,269314E-03
245	45,75817	2,269311E-03
246	45,04299	2,825231E-03
247	45,04293	2,825242E-03
248	44,05247	1,890204E-03
249	44,05249	1,890214E-03
250	41,84151	2,176455E-03
251	41,84156	2,176465E-03
252	40,29403	1,516029E-03
253	40,29403	1,516027E-03
254	39,2643	0,0014777
255	39,26425	1,477676E-03
256	41,39632	-4,322102E-04
257	41,39629	-4,321928E-04
258	40,80428	-1,026097E-03
259	40,80432	-1,026113E-03
260	40,96694	-1,965893E-03
261	40,96695	-1,965869E-03
262	41,57539	-3,375724E-03
263	41,57536	-3,375721E-03
264	45,50676	-2,67065E-03
265	45,50673	-2,670686E-03
266	44,56808	-1,089863E-03
267	44,56812	-1,089862E-03
268	43,68361	5,658005E-04
269	43,68364	5,657639E-04
270	42,80034	2,130874E-03
271	42,80034	2,130869E-03
272	48,5019	-6,950618E-04
273	48,5019	-6,950594E-04
274	47,31043	-3,185713E-04
275	47,31046	-3,185651E-04
276	46,77887	-2,99287E-03
277	46,77893	-2,992853E-03
278	45,51445	-4,295925E-03
279	45,51445	-4,295916E-03
280	51,80836	-2,238645E-03
281	51,80836	-2,238636E-03
282	52,31562	-2,861566E-03
283	52,31562	-2,861558E-03
284	54,54131	-1,89382E-03
285	54,54132	-1,893792E-03

286	54,03482	-2,726161E-03
287	54,03482	-2,726173E-03
288	57,53923	-1,984988E-03
289	57,53924	-1,984987E-03
290	59,04866	-2,460743E-03
291	59,04866	-2,460763E-03
292	59,24473	-7,823654E-04
293	59,24471	-7,823527E-04
294	59,24248	-1,582984E-03
295	59,24243	-1,582952E-03
296	60,09571	2,861359E-04
297	60,09573	2,861094E-04
298	60,02166	1,630153E-03
299	60,02169	1,630159E-03
300	57,68951	2,425309E-03
301	57,6895	2,425301E-03
302	56,89611	2,962737E-03
303	56,89605	2,962726E-03
304	56,66489	1,701055E-03
305	56,6649	1,701076E-03
306	56,18403	1,306216E-03
307	56,18404	1,306219E-03
308	53,58852	6,904604E-04
309	53,58851	6,904928E-04
310	55,10707	-2,184722E-03
311	55,10702	-2,184734E-03
312	54,51127	3,630854E-04
313	54,51124	3,630848E-04
314	53,58843	9,160148E-04
315	53,58847	9,159917E-04
316	50,03671	2,650219E-03
317	50,03671	2,650206E-03
318	52,53787	3,209287E-03
319	52,53783	3,209302E-03
320	50,75975	2,44522E-03
321	50,75971	2,445214E-03
322	50,19791	1,778923E-03
323	50,19796	1,778929E-03
324	44,38332	1,578611E-03
325	44,38334	1,578605E-03
326	44,98705	2,092914E-03
327	44,98701	2,092916E-03
328	44,6964	1,680507E-03
329	44,69637	1,680479E-03
330	44,69493	3,059845E-03
331	44,69496	3,059841E-03
332	40,8048	9,586617E-04
333	40,80483	9,586697E-04
334	40,72778	9,816162E-04
335	40,72778	9,815951E-04
336	42,35384	-9,168712E-04
337	42,35382	-9,168534E-04
338	43,43109	-1,456955E-03
339	43,4311	-1,45697E-03
340	42,31824	-1,843626E-03
341	42,31823	-1,843584E-03
342	43,62914	-3,33868E-03
343	43,62915	-3,338691E-03
344	46,22427	-1,983359E-03
345	46,22427	-1,983397E-03
346	46,52864	-3,174735E-04
347	46,52867	-3,174765E-04
348	46,26701	-8,239598E-04
349	46,26702	-8,240084E-04
350	46,82708	8,074684E-04
351	46,8271	8,074836E-04

352	48,5411	-3,336225E-04
353	48,54113	-3,336219E-04
354	48,33425	-6,385559E-04
355	48,33428	-6,385391E-04
356	49,82076	-2,302914E-03
357	49,82079	-2,302893E-03
358	49,33765	-2,477446E-03
359	49,33763	-2,477419E-03
360	52,46044	-2,811909E-03
361	52,46046	-2,811915E-03
362	51,24379	-8,593596E-04
363	51,24381	-8,593774E-04
364	54,0082	-9,438256E-04

x(DT) (s)	H(4 , 2 ,DT) (m)	Q(4 , 2 ,DT) (m3/s)
1	67,16689	0,02697
2	67,16689	0,02697
3	67,16689	0,02697
4	67,16689	0,02697
5	67,16688	2,696999E-02
6	67,16689	2,697001E-02
7	31,08177	4,215056E-03
8	31,08177	4,215062E-03
9	30,81718	1,405804E-03
10	30,81718	1,405811E-03
11	27,69196	-5,242135E-05
12	27,69196	-5,241483E-05
13	30,63809	7,007758E-03
14	30,6381	7,007764E-03
15	22,93709	3,906308E-03
16	22,93707	3,906306E-03
17	24,7581	1,227117E-03
18	24,75811	1,227112E-03
19	24,35086	3,161244E-04
20	24,35084	3,161244E-04
21	26,46949	2,657903E-03
22	26,46949	2,657902E-03
23	21,2278	2,448913E-06
24	21,2278	2,444256E-06
25	19,85352	-1,405112E-03
26	19,85351	-1,40511E-03
27	21,75421	-4,01326E-04
28	21,75422	-4,013218E-04
29	19,44272	3,791945E-03
30	19,44273	3,791934E-03
31	17,90795	4,427969E-03
32	17,90794	4,427976E-03
33	27,51417	-3,939217E-03
34	27,51418	-3,939215E-03
35	18,87334	-1,147964E-03
36	18,87333	-1,147969E-03
37	38,21848	-7,913747E-03
38	38,21847	-7,913742E-03
39	36,5149	-1,754498E-02
40	36,5149	-1,754496E-02
41	44,52738	-0,0223996
42	44,52737	-0,0223996
43	47,92048	-1,313409E-02
44	47,92046	-1,313408E-02
45	43,3026	-1,207413E-02
46	43,30261	-1,207413E-02
47	54,91207	-4,672522E-03
48	54,91207	-4,672531E-03
49	65,55648	-5,935274E-03
50	65,55647	-5,93528E-03

51	74,52875	1,659412E-04
52	74,52875	1,659505E-04
53	66,92567	-1,82361E-03
54	66,92566	-1,823617E-03
55	66,25433	-2,949022E-03
56	66,25433	-2,949025E-03
57	65,5098	-5,066775E-03
58	65,50982	-5,066767E-03
59	73,63119	1,005776E-03
60	73,63118	1,005774E-03
61	69,46958	3,296176E-03
62	69,46957	3,296172E-03
63	67,19102	3,311347E-03
64	67,19101	3,311345E-03
65	72,38972	-2,857834E-03
66	72,38974	-2,857832E-03
67	71,43221	-4,797708E-04
68	71,43224	-4,797634E-04
69	71,87913	1,308337E-03
70	71,87909	1,308335E-03
71	71,41923	-0,0033677
72	71,41924	-3,367711E-03
73	62,9748	-2,044421E-03
74	62,97481	-2,044426E-03
75	71,62923	3,689714E-03
76	71,62926	3,689723E-03
77	59,92842	8,559967E-03
78	59,92841	8,559979E-03
79	59,08885	1,009216E-02
80	59,08887	1,009215E-02
81	53,1423	1,328635E-02
82	53,1423	1,328635E-02
83	52,99657	0,0109382
84	52,9966	1,093821E-02
85	49,55008	1,081037E-02
86	49,55009	1,081038E-02
87	46,091	2,589798E-03
88	46,09097	2,589815E-03
89	40,49206	2,498236E-03
90	40,49207	2,498245E-03
91	33,47122	1,443082E-03
92	33,4712	1,443096E-03
93	33,48473	4,492051E-03
94	33,48474	4,492069E-03
95	32,69221	1,258965E-03
96	32,69223	1,258954E-03
97	41,80446	7,469337E-04
98	41,80441	7,469198E-04
99	36,48199	-1,260507E-03
100	36,48198	-1,260503E-03
101	32,91344	5,239388E-04
102	32,91342	5,239295E-04
103	34,42669	-5,24626E-03
104	34,4267	-5,246277E-03
105	33,61359	-2,636146E-03
106	33,61357	-2,636142E-03
107	37,58069	0,0021446
108	37,5807	2,144595E-03
109	35,42612	3,256609E-03
110	35,42611	3,256606E-03
111	32,11279	1,110919E-04
112	32,1128	1,11091E-04
113	40,97239	-6,549433E-04
114	40,97241	-6,549256E-04
115	39,726	-2,238096E-03
116	39,72597	-2,238093E-03

117	43,4793	-0,0045664
118	43,4793	-4,566396E-03
119	41,2454	-8,690655E-03
120	41,24538	-8,690653E-03
121	49,39497	-1,156629E-02
122	49,395	-1,156629E-02
123	50,16742	-7,617362E-03
124	50,16741	-7,617366E-03
125	54,62249	-6,291966E-03
126	54,62246	-6,291969E-03
127	53,05232	-3,283869E-03
128	53,05235	-3,283899E-03
129	59,67409	-4,164886E-03
130	59,67408	-4,164906E-03
131	64,82224	-1,035323E-03
132	64,82226	-1,035308E-03
133	63,68096	-1,595443E-03
134	63,68096	-1,595438E-03
135	66,40457	-1,825074E-03
136	66,40456	-1,825087E-03
137	60,07073	-2,960408E-03
138	60,07079	-2,960404E-03
139	60,8267	3,818639E-03
140	60,82674	3,818648E-03
141	63,15679	2,681896E-03
142	63,15681	0,0026819
143	62,87622	2,570502E-03
144	62,87617	2,570515E-03
145	65,91323	1,016848E-03
146	65,91325	1,016857E-03
147	62,86162	1,005242E-03
148	62,86164	1,005281E-03
149	59,35804	-1,967812E-03
150	59,35806	-1,967797E-03
151	60,95334	-1,570543E-03
152	60,95332	-1,570543E-03
153	60,38163	-1,019949E-03
154	60,38158	-1,019968E-03
155	59,50819	4,041424E-03
156	59,50821	4,04142E-03
157	53,85592	5,499493E-03
158	53,85588	5,499489E-03
159	55,01362	5,684663E-03
160	55,01365	5,684651E-03
161	51,55622	6,701992E-03
162	51,55619	6,701966E-03
163	53,12245	7,261321E-03
164	53,12244	7,261333E-03
165	43,52987	6,774048E-03
166	43,52987	6,774064E-03
167	45,23139	2,222221E-03
168	45,23137	2,222216E-03
169	42,53188	1,358302E-03
170	42,53192	1,358305E-03
171	39,7847	2,782294E-03
172	39,7847	2,782308E-03
173	38,79288	3,574252E-03
174	38,79287	3,574252E-03
175	35,44587	-5,774964E-04
176	35,44584	-5,775001E-04
177	40,15072	6,524995E-04
178	40,15071	6,525032E-04
179	42,862	-1,752867E-03
180	42,86199	-1,752838E-03
181	40,23138	-2,262895E-03
182	40,23136	-2,262883E-03

183	39,01815	-4,209182E-03
184	39,01818	-4,209206E-03
185	38,388	-1,780316E-03
186	38,38799	-1,78034E-03
187	39,90889	-9,707641E-05
188	39,90893	-9,709131E-05
189	41,76855	2,702246E-03
190	41,76851	2,702238E-03
191	43,79425	-1,121303E-04
192	43,79425	-1,121433E-04
193	43,95147	-6,69146E-05
194	43,95153	-6,692763E-05
195	44,37104	-2,521915E-03
196	44,37104	-2,521901E-03
197	45,62789	-3,641578E-03
198	45,62792	-3,641544E-03
199	46,71982	-6,384542E-03
200	46,71978	-6,384538E-03
201	52,59411	-6,102836E-03
202	52,59413	-6,102827E-03
203	48,83457	-4,099175E-03
204	48,83463	-4,09916E-03
205	55,36654	-3,743787E-03
206	55,36653	-3,74378E-03
207	55,25279	-4,693463E-03
208	55,25278	-4,693471E-03
209	59,68711	-2,553344E-03
210	59,68709	-2,553368E-03
211	60,77519	-5,166512E-04
212	60,77521	-5,166475E-04
213	59,50946	-2,358722E-03
214	59,50946	-2,358694E-03
215	60,93668	-1,300508E-03
216	60,9367	-1,300525E-03
217	62,12029	-4,806053E-04
218	62,12029	-4,806239E-04
219	59,37395	3,162039E-03
220	59,37397	3,162032E-03
221	57,39421	3,321134E-03
222	57,39423	3,321145E-03
223	58,67147	2,847247E-03
224	58,67144	2,847254E-03
225	60,9832	8,134004E-04
226	60,98324	8,13406E-04
227	60,42082	1,554376E-03
228	60,42077	1,554402E-03
229	57,62376	-1,324527E-03
230	57,62378	-1,324493E-03
231	53,68575	-9,043999E-04
232	53,68573	-9,044036E-04
233	55,84557	-8,267257E-04
234	55,84553	-8,267276E-04
235	54,28273	3,764102E-03
236	54,28272	3,764114E-03
237	53,85708	4,097316E-03
238	53,85702	4,097302E-03
239	53,55978	3,91518E-03
240	53,5598	3,915154E-03
241	48,38119	3,900409E-03
242	48,3812	3,900381E-03
243	50,47879	5,276971E-03
244	50,47877	5,276971E-03
245	44,9485	2,774187E-03
246	44,94845	2,774202E-03
247	45,27583	2,669547E-03
248	45,27581	2,669535E-03

249	42,71031	2,732595E-03
250	42,71034	2,732598E-03
251	41,58247	2,334552E-03
252	41,5825	2,334569E-03
253	39,80461	1,822101E-03
254	39,8046	1,822103E-03
255	41,84279	-1,506964E-04
256	41,84272	-1,507048E-04
257	41,57162	-5,425438E-04
258	41,57165	-5,425671E-04
259	41,63382	-1,548027E-03
260	41,63381	-1,548016E-03
261	42,39965	-2,865059E-03
262	42,39966	-2,865033E-03
263	43,00806	-4,266504E-03
264	43,00806	-4,266523E-03
265	43,79248	-1,581728E-03
266	43,79246	-1,581766E-03
267	42,81411	1,749862E-05
268	42,81417	1,748372E-05
269	41,99841	1,62812E-03
270	41,9984	1,62811E-03
271	47,88886	-1,082937E-03
272	47,88886	-1,08294E-03
273	47,60809	-1,308937E-04
274	47,6081	-1,308983E-04
275	49,16716	-1,489297E-03
276	49,1672	-1,489293E-03
277	47,19701	-3,246609E-03
278	47,19705	-3,246577E-03
279	47,07072	-5,256816E-03
280	47,07072	-5,256812E-03
281	52,56678	-2,71134E-03
282	52,56679	-2,71133E-03
283	52,67668	-3,080162E-03
284	52,67667	-3,080149E-03
285	54,95526	-2,150875E-03
286	54,9553	-2,150862E-03
287	55,21643	-3,46303E-03
288	55,21643	-3,463037E-03
289	58,68106	-2,700642E-03
290	58,68108	-2,700649E-03
291	57,82371	-1,681583E-03
292	57,82368	-1,681579E-03
293	59,88019	-1,182402E-03
294	59,88014	-1,18237E-03
295	58,19	-9,165183E-04
296	58,19003	-9,165369E-04
297	58,99208	9,819809E-04
298	58,99208	9,819679E-04
299	58,21603	2,765814E-03
300	58,21605	2,765825E-03
301	56,85387	2,94573E-03
302	56,85384	2,945736E-03
303	57,7681	2,403133E-03
304	57,76804	2,403116E-03
305	56,73258	1,655163E-03
306	56,7326	1,655173E-03
307	55,3701	1,817578E-03
308	55,37008	1,817603E-03
309	56,62845	-1,227025E-03
310	56,62846	-1,226999E-03
311	52,79365	-7,206053E-04
312	52,7936	-7,206183E-04
313	53,61055	9,30924E-04
314	53,61057	9,308904E-04

315	50,42933	2,907183E-03
316	50,42934	2,907175E-03
317	50,83379	2,13979E-03
318	50,83375	2,139804E-03
319	52,23549	3,388542E-03
320	52,23546	3,388547E-03
321	50,99728	2,288805E-03
322	50,99726	2,288778E-03
323	47,43578	3,517191E-03
324	47,43582	3,517195E-03
325	44,27281	1,645528E-03
326	44,2728	1,645545E-03
327	45,16143	1,978092E-03
328	45,16142	1,978076E-03
329	43,59454	2,372191E-03
330	43,59452	2,372159E-03
331	44,39846	3,23641E-03
332	44,39848	3,236411E-03
333	40,74641	9,944625E-04
334	40,74645	9,944653E-04
335	43,04549	-4,809769E-04
336	43,04545	-4,809741E-04
337	43,32349	-1,527392E-03
338	43,32351	-1,527401E-03
339	43,18461	-1,299173E-03
340	43,18457	-1,299154E-03
341	44,17007	-3,007606E-03
342	44,17012	-3,007598E-03
343	43,87252	-3,479786E-03
344	43,87255	-3,479806E-03
345	45,06038	-1,245061E-03
346	45,06038	-1,245088E-03
347	46,79972	-4,883027E-04
348	46,79977	-4,883232E-04
349	45,2541	-1,844754E-04
350	45,25406	-1,844941E-04
351	48,58838	-3,039138E-04
352	48,58841	-3,039101E-04
353	48,67971	-4,209066E-04
354	48,67973	-4,208963E-04
355	50,40086	-1,941286E-03
356	50,40089	-1,941271E-03
357	49,72666	-2,237694E-03
358	49,72666	-2,237652E-03
359	51,18126	-3,633196E-03
360	51,18128	-0,0036332
361	50,31273	-1,448808E-03
362	50,31276	-1,448818E-03
363	52,69639	-1,774535E-03
364	52,69636	-1,774525E-03

x(DT) (s)	H(4 , 3 ,DT) (m)	Q(4 , 3 ,DT) (m3/s)
1	65,88706	0,02697
2	65,88706	2,696999E-02
3	65,88706	0,02697
4	65,88706	0,02697
5	65,88705	0,02697
6	65,88705	2,696999E-02
7	65,88707	0,02697
8	33,15398	2,888625E-03
9	33,15398	2,888632E-03
10	30,40664	1,662499E-03
11	30,40664	1,662505E-03
12	23,56123	2,55238E-03
13	23,56123	2,552383E-03

14	29,14875	7,892436E-03
15	29,14875	7,892446E-03
16	25,95505	1,986279E-03
17	25,95505	1,986267E-03
18	25,27478	8,996372E-04
19	25,27477	8,996427E-04
20	23,55268	8,193352E-04
21	23,55267	8,193325E-04
22	25,94013	2,983877E-03
23	25,94013	2,983873E-03
24	21,65679	-2,680654E-04
25	21,65678	-2,68065E-04
26	20,01168	-1,502656E-03
27	20,01167	-1,502658E-03
28	17,26855	2,427471E-03
29	17,26856	2,427466E-03
30	18,13978	4,597612E-03
31	18,13976	4,597616E-03
32	29,33511	-2,799645E-03
33	29,33511	-2,799646E-03
34	20,99417	1,8945E-04
35	20,99417	1,894548E-04
36	34,0123	-1,069299E-02
37	34,01228	-1,069299E-02
38	45,19027	-1,224061E-02
39	45,19027	-0,0122406
40	45,09101	-2,261145E-02
41	45,09102	-2,261144E-02
42	39,62806	-1,875343E-02
43	39,62803	-1,875342E-02
44	45,03166	-1,112103E-02
45	45,03167	-1,112103E-02
46	43,49418	-1,203319E-02
47	43,4942	-1,203319E-02
48	61,32116	-8,689811E-03
49	61,32115	-8,689813E-03
50	65,26461	-5,712138E-03
51	65,2646	-5,712143E-03
52	72,30254	1,569735E-03
53	72,30255	1,569737E-03
54	67,48943	-2,175426E-03
55	67,48943	-2,175437E-03
56	67,58144	-3,776238E-03
57	67,58144	-3,776239E-03
58	64,79663	-4,588574E-03
59	64,79665	-4,588562E-03
60	69,72283	3,469228E-03
61	69,72282	3,469225E-03
62	68,29446	4,025143E-03
63	68,29445	4,02514E-03
64	74,67409	-1,419573E-03
65	74,67409	-1,41958E-03
66	70,0342	-1,363404E-03
67	70,03423	-1,363403E-03
68	70,238	2,735402E-04
69	70,23801	2,735652E-04
70	75,35603	-8,860614E-04
71	75,35602	-8,860826E-04
72	66,15775	-3,72793E-05
73	66,15776	-3,729156E-05
74	62,76225	-1,905754E-03
75	62,76226	-1,905755E-03
76	61,81965	9,86044E-03
77	61,81966	9,860462E-03
78	58,14819	9,601264E-03
79	58,14821	9,601254E-03

80	53,3303	1,361044E-02
81	53,3303	1,361044E-02
82	54,6463	1,214209E-02
83	54,6463	1,214208E-02
84	51,14329	1,197411E-02
85	51,14331	1,197413E-02
86	54,18292	7,759283E-03
87	54,18289	7,759311E-03
88	43,34184	4,31595E-03
89	43,34184	4,315951E-03
90	37,79734	4,190577E-03
91	37,79733	4,190595E-03
92	31,05085	2,967037E-03
93	31,05084	2,967045E-03
94	35,62569	3,119587E-03
95	35,62573	3,119591E-03
96	37,65602	-1,872923E-03
97	37,65601	-1,872918E-03
98	40,73267	1,422175E-03
99	40,73262	1,422157E-03
100	33,28371	7,58064E-04
101	33,2837	7,580627E-04
102	38,25216	-2,842917E-03
103	38,25217	-2,842938E-03
104	31,98667	-3,677071E-03
105	31,98665	-3,677067E-03
106	31,81453	-1,493963E-03
107	31,81453	-1,493973E-03
108	35,60757	3,38373E-03
109	35,60756	3,383733E-03
110	36,24769	2,726769E-03
111	36,24768	2,726761E-03
112	37,15827	-3,070554E-03
113	37,15827	-3,07055E-03
114	41,60584	-1,053915E-03
115	41,60585	-1,05389E-03
116	43,47176	-4,594578E-03
117	43,47174	-4,594582E-03
118	45,6818	-5,932145E-03
119	45,6818	-5,932135E-03
120	47,80968	-1,274623E-02
121	47,80968	-1,274624E-02
122	46,85249	-9,814598E-03
123	46,8525	-9,814586E-03
124	51,45666	-8,365965E-03
125	51,45664	-8,365963E-03
126	51,50322	-4,281054E-03
127	51,50323	-4,281089E-03
128	57,1011	-5,82503E-03
129	57,1011	-5,825045E-03
130	59,79766	-4,223565E-03
131	59,79764	-4,223578E-03
132	64,69746	-9,554541E-04
133	64,69749	-9,554387E-04
134	65,23289	-2,571258E-03
135	65,23291	-2,57126E-03
136	64,14093	-3,939482E-04
137	64,14095	-3,939727E-04
138	55,08124	1,956435E-04
139	55,08128	1,956543E-04
140	62,87471	2,511009E-03
141	62,87473	2,511025E-03
142	63,09202	2,714759E-03
143	63,092	2,714789E-03
144	65,62021	8,328392E-04
145	65,62019	8,328303E-04

146	64,39229	1,974792E-03
147	64,39228	1,974816E-03
148	63,46595	6,230345E-04
149	63,46599	6,230588E-04
150	59,84864	-2,272889E-03
151	59,84866	-2,27287E-03
152	60,23418	-1,114308E-03
153	60,23416	-1,114309E-03
154	55,92981	1,788481E-03
155	55,92979	1,788446E-03
156	55,47363	6,56746E-03
157	55,47362	6,567476E-03
158	54,23732	5,225428E-03
159	54,23732	5,225398E-03
160	52,40302	7,295027E-03
161	52,40304	7,295025E-03
162	51,81931	6,486251E-03
163	51,81926	6,486243E-03
164	48,57694	1,006918E-02
165	48,57693	1,006919E-02
166	47,93575	3,944829E-03
167	47,93576	3,94484E-03
168	44,55616	2,642537E-03
169	44,55616	2,64252E-03
170	40,01997	2,940245E-03
171	40,01998	2,940266E-03
172	38,6433	3,493464E-03
173	38,6433	3,493475E-03
174	40,39437	2,550198E-03
175	40,39435	2,550201E-03
176	36,82515	-1,446892E-03
177	36,82513	-1,446899E-03
178	43,41496	-1,406372E-03
179	43,41493	-1,406353E-03
180	41,95502	-1,177523E-03
181	41,95502	-1,177499E-03
182	41,17967	-2,855195E-03
183	41,1797	-2,855218E-03
184	36,79965	-2,790558E-03
185	36,79966	-2,790565E-03
186	37,81835	-1,417582E-03
187	37,81835	-1,417619E-03
188	38,61868	7,165343E-04
189	38,61866	7,165471E-04
190	45,00615	6,525485E-04
191	45,00613	6,525233E-04
192	43,83704	-1,390966E-04
193	43,83707	-1,391289E-04
194	46,10964	-1,427831E-03
195	46,10965	-1,427812E-03
196	45,90351	-3,48122E-03
197	45,90351	-3,481206E-03
198	48,38577	-5,365957E-03
199	48,38579	-5,365915E-03
200	49,52732	-8,109698E-03
201	49,5273	-8,109711E-03
202	49,17179	-3,903431E-03
203	49,17183	-3,90343E-03
204	51,86513	-5,991575E-03
205	51,86516	-5,991542E-03
206	56,09041	-4,184699E-03
207	56,09041	-4,184699E-03
208	55,81461	-5,023304E-03
209	55,81461	-5,023316E-03
210	58,62508	-1,876399E-03
211	58,62505	-1,876422E-03

212	61,6041	-1,039058E-03
213	61,60409	-1,039034E-03
214	59,39347	-2,279408E-03
215	59,39352	-2,279409E-03
216	60,88127	-1,26369E-03
217	60,88128	-1,263699E-03
218	57,85475	2,209461E-03
219	57,85475	2,20944E-03
220	58,23597	3,868544E-03
221	58,23598	3,868549E-03
222	58,39257	2,67934E-03
223	58,39257	2,679365E-03
224	61,4318	1,09762E-03
225	61,4318	1,097603E-03
226	60,11227	1,361866E-03
227	60,11225	1,361908E-03
228	61,30199	9,960341E-04
229	61,30197	9,960424E-04
230	55,32316	1,28154E-04
231	55,32319	1,281832E-04
232	54,7069	-1,547417E-03
233	54,70686	-1,547414E-03
234	51,42125	1,963961E-03
235	51,42122	1,963957E-03
236	53,77869	4,066226E-03
237	53,77867	4,066243E-03
238	53,82329	4,099998E-03
239	53,82328	4,099952E-03
240	50,94162	5,549158E-03
241	50,94164	5,549137E-03
242	48,31155	3,927444E-03
243	48,31152	3,927437E-03
244	49,64431	5,772289E-03
245	49,64426	5,772307E-03
246	45,18233	2,618196E-03
247	45,18232	2,618186E-03
248	43,92595	3,512859E-03
249	43,92595	3,512839E-03
250	42,44809	2,889668E-03
251	42,4481	2,889678E-03
252	41,08894	2,639718E-03
253	41,08896	2,639739E-03
254	42,38499	1,912525E-04
255	42,38496	1,912705E-04
256	42,01799	-2,611466E-04
257	42,01797	-2,611952E-04
258	42,40123	-1,065361E-03
259	42,40121	-1,065355E-03
260	43,06841	-2,450008E-03
261	43,0684	-2,449995E-03
262	43,83474	-0,0037609
263	43,83478	-3,760897E-03
264	41,29633	-3,166906E-03
265	41,29633	-3,166926E-03
266	42,03765	-4,723732E-04
267	42,03765	-4,724278E-04
268	41,12815	1,080643E-03
269	41,12818	1,080654E-03
270	47,09314	-1,587511E-03
271	47,09312	-1,587519E-03
272	46,99486	-5,178858E-04
273	46,99487	-5,178944E-04
274	49,46622	-1,302597E-03
275	49,46624	-1,302605E-03
276	49,58011	-1,747237E-03
277	49,58012	-1,747218E-03

278	48,75268	-4,215903E-03
279	48,75272	-4,215878E-03
280	47,85352	-5,71978E-03
281	47,85352	-5,719775E-03
282	52,9282	-2,93109E-03
283	52,9282	-2,931074E-03
284	53,09726	-3,334849E-03
285	53,09727	-3,334849E-03
286	56,13769	-2,891372E-03
287	56,13772	-2,891354E-03
288	56,37014	-4,177243E-03
289	56,37015	-4,177259E-03
290	57,45402	-1,918791E-03
291	57,45401	-1,918777E-03
292	58,46244	-2,081224E-03
293	58,46238	-2,081203E-03
294	58,82573	-5,159226E-04
295	58,82577	-5,159429E-04
296	57,08649	-2,197237E-04
297	57,0865	-2,197272E-04
298	57,18484	2,120542E-03
299	57,18483	2,120534E-03
300	57,37606	3,287004E-03
301	57,37606	3,28703E-03
302	57,72858	2,384522E-03
303	57,72855	2,384523E-03
304	57,83345	2,355517E-03
305	57,83341	2,355489E-03
306	55,91602	2,167038E-03
307	55,91601	2,167067E-03
308	58,41047	-1,033133E-04
309	58,41046	-1,032973E-04
310	54,31078	2,36145E-04
311	54,31079	2,361714E-04
312	51,89307	-1,521297E-04
313	51,89307	-1,521744E-04
314	50,44466	2,926347E-03
315	50,44465	2,926329E-03
316	51,22755	2,394456E-03
317	51,22752	2,394474E-03
318	50,53572	2,322671E-03
319	50,53569	2,322676E-03
320	52,4691	3,228487E-03
321	52,4691	3,22847E-03
322	48,22362	4,032035E-03
323	48,22361	4,032005E-03
324	47,3162	3,578871E-03
325	47,3162	3,578898E-03
326	44,44898	1,531432E-03
327	44,449	1,531432E-03
328	44,05578	2,67096E-03
329	44,05578	2,67094E-03
330	43,30058	2,551318E-03
331	43,30055	2,55129E-03
332	44,33149	3,26702E-03
333	44,33152	3,267017E-03
334	43,06516	-4,68815E-04
335	43,06516	-4,687884E-04
336	44,01545	-1,092371E-03
337	44,01545	-1,092393E-03
338	43,07679	-1,369239E-03
339	43,07676	-1,369215E-03
340	45,03881	-2,466541E-03
341	45,03882	-2,466556E-03
342	44,41238	-3,150364E-03
343	44,41244	-3,150367E-03

344	42,71175	-2,734383E-03
345	42,71177	-2,734391E-03
346	45,33314	-1,415337E-03
347	45,33316	-1,415381E-03
348	45,78619	1,510833E-04
349	45,7862	1,510915E-04
350	47,01745	-1,29639E-03
351	47,01743	-1,296421E-03
352	48,72703	-3,912425E-04
353	48,72705	-3,912285E-04
354	50,74858	-1,725318E-03
355	50,7486	-1,725309E-03
356	50,3052	-1,876782E-03
357	50,30519	-1,876746E-03
358	51,57502	-3,397699E-03
359	51,57507	-3,397687E-03
360	49,03109	-2,262675E-03
361	49,03112	-2,262684E-03
362	51,7696	-2,365169E-03
363	51,76958	-2,365149E-03
364	53,86092	-2,50538E-03

Trecho 5

x(DT) (s)	H(5 , 1 ,DT) (m)	Q(5 , 1 ,DT) (m3/s)
1	65,88706	0,02697
2	65,88706	0,02697
3	65,88706	0,02697
4	65,88706	0,02697
5	65,88705	0,02697
6	65,88705	0,02697
7	65,88707	0,02697
8	33,15398	2,888627E-03
9	33,15398	2,888633E-03
10	30,40664	1,662499E-03
11	30,40664	1,662504E-03
12	23,56123	2,552381E-03
13	23,56123	2,552385E-03
14	29,14875	7,892436E-03
15	29,14875	7,892446E-03
16	25,95505	1,986278E-03
17	25,95505	1,986268E-03
18	25,27478	8,996372E-04
19	25,27477	8,996423E-04
20	23,55268	8,193345E-04
21	23,55267	8,193327E-04
22	25,94013	2,983876E-03
23	25,94013	2,983873E-03
24	21,65679	-2,680661E-04
25	21,65678	-2,680638E-04
26	20,01168	-1,502657E-03
27	20,01167	-1,502658E-03
28	17,26855	2,42747E-03
29	17,26856	2,427467E-03
30	18,13978	4,597612E-03
31	18,13976	4,597615E-03
32	29,33511	-2,799646E-03
33	29,33511	-2,799645E-03
34	20,99417	1,894507E-04
35	20,99417	1,894559E-04
36	34,0123	-1,069298E-02
37	34,01228	-1,069299E-02
38	45,19027	-1,224061E-02
39	45,19027	-0,0122406
40	45,09101	-2,261145E-02
41	45,09102	-2,261145E-02

42	39,62806	-1,875343E-02
43	39,62803	-1,875342E-02
44	45,03166	-1,112103E-02
45	45,03167	-1,112103E-02
46	43,49418	-1,203319E-02
47	43,4942	-1,203319E-02
48	61,32116	-8,68981E-03
49	61,32115	-8,689811E-03
50	65,26461	-5,712142E-03
51	65,2646	-5,712145E-03
52	72,30254	1,569737E-03
53	72,30255	1,569735E-03
54	67,48943	-2,175429E-03
55	67,48943	-2,17544E-03
56	67,58144	-3,776241E-03
57	67,58144	-3,776235E-03
58	64,79663	-4,588572E-03
59	64,79665	-4,588561E-03
60	69,72283	3,469231E-03
61	69,72282	3,469222E-03
62	68,29446	4,025142E-03
63	68,29445	4,025144E-03
64	74,67409	-1,419572E-03
65	74,67409	-1,419576E-03
66	70,0342	-1,363402E-03
67	70,03423	-0,0013634
68	70,238	2,735422E-04
69	70,23801	2,735664E-04
70	75,35603	-8,860599E-04
71	75,35602	-8,860805E-04
72	66,15775	-3,727556E-05
73	66,15776	-3,729603E-05
74	62,76225	-1,905756E-03
75	62,76226	-1,905754E-03
76	61,81965	9,860441E-03
77	61,81966	9,860462E-03
78	58,14819	9,601265E-03
79	58,14821	9,601256E-03
80	53,3303	1,361044E-02
81	53,3303	1,361044E-02
82	54,6463	1,214209E-02
83	54,6463	1,214208E-02
84	51,14329	1,197411E-02
85	51,14331	1,197413E-02
86	54,18292	7,759286E-03
87	54,18289	7,759311E-03
88	43,34184	4,31595E-03
89	43,34184	4,31595E-03
90	37,79734	4,190579E-03
91	37,79733	4,190595E-03
92	31,05085	2,967037E-03
93	31,05084	2,967045E-03
94	35,62569	3,119586E-03
95	35,62573	3,119592E-03
96	37,65602	-1,872923E-03
97	37,65601	-1,872918E-03
98	40,73267	1,422173E-03
99	40,73262	1,422159E-03
100	33,28371	7,580662E-04
101	33,2837	7,580653E-04
102	38,25216	-2,842918E-03
103	38,25217	-2,842935E-03
104	31,98667	-3,67707E-03
105	31,98665	-3,677067E-03
106	31,81453	-1,493964E-03
107	31,81453	-1,493974E-03

108	35,60757	3,38373E-03
109	35,60756	3,383733E-03
110	36,24769	2,72677E-03
111	36,24768	2,726759E-03
112	37,15827	-3,070554E-03
113	37,15827	-3,070547E-03
114	41,60584	-1,053914E-03
115	41,60585	-1,05389E-03
116	43,47176	-4,594579E-03
117	43,47174	-4,594583E-03
118	45,6818	-5,932146E-03
119	45,6818	-5,932137E-03
120	47,80968	-1,274623E-02
121	47,80968	-1,274624E-02
122	46,85249	-9,814598E-03
123	46,8525	-9,814586E-03
124	51,45666	-8,365965E-03
125	51,45664	-8,365964E-03
126	51,50322	-4,281055E-03
127	51,50323	-4,281089E-03
128	57,1011	-5,82503E-03
129	57,1011	-5,825045E-03
130	59,79766	-4,223564E-03
131	59,79764	-4,22358E-03
132	64,69746	-9,554524E-04
133	64,69749	-9,554393E-04
134	65,23289	-2,571254E-03
135	65,23291	-2,571258E-03
136	64,14093	-3,939435E-04
137	64,14095	-3,939695E-04
138	55,08124	1,956447E-04
139	55,08128	1,956569E-04
140	62,87471	2,511011E-03
141	62,87473	2,511027E-03
142	63,09202	2,714758E-03
143	63,092	2,714789E-03
144	65,62021	8,32837E-04
145	65,62019	8,328257E-04
146	64,39229	1,974792E-03
147	64,39228	1,974816E-03
148	63,46595	6,230357E-04
149	63,46599	6,230563E-04
150	59,84864	-2,272891E-03
151	59,84866	-2,272872E-03
152	60,23418	-1,114309E-03
153	60,23416	-1,114311E-03
154	55,92981	1,788482E-03
155	55,92979	1,788444E-03
156	55,47363	6,567462E-03
157	55,47362	6,567475E-03
158	54,23732	5,225427E-03
159	54,23732	5,225397E-03
160	52,40302	7,295026E-03
161	52,40304	7,295026E-03
162	51,81931	6,486251E-03
163	51,81926	6,48624E-03
164	48,57694	1,006918E-02
165	48,57693	1,006919E-02
166	47,93575	3,944826E-03
167	47,93576	3,944842E-03
168	44,55616	2,642536E-03
169	44,55616	2,64252E-03
170	40,01997	2,940245E-03
171	40,01998	2,940267E-03
172	38,6433	3,493465E-03
173	38,6433	3,493475E-03

174	40,39437	2,550197E-03
175	40,39435	2,550203E-03
176	36,82515	-1,446893E-03
177	36,82513	-0,0014469
178	43,41496	-1,40637E-03
179	43,41493	-1,406356E-03
180	41,95502	-1,177524E-03
181	41,95502	-1,177501E-03
182	41,17967	-2,855192E-03
183	41,1797	-2,855219E-03
184	36,79965	-2,790557E-03
185	36,79966	-2,790568E-03
186	37,81835	-1,41758E-03
187	37,81835	-1,417619E-03
188	38,61868	7,165346E-04
189	38,61866	7,165485E-04
190	45,00615	6,525481E-04
191	45,00613	6,525229E-04
192	43,83704	-1,390979E-04
193	43,83707	-1,391313E-04
194	46,10964	-1,427829E-03
195	46,10965	-1,427809E-03
196	45,90351	-3,481219E-03
197	45,90351	-3,481205E-03
198	48,38577	-5,365956E-03
199	48,38579	-5,365916E-03
200	49,52732	-8,109701E-03
201	49,5273	-8,109712E-03
202	49,17179	-3,903432E-03
203	49,17183	-3,903428E-03
204	51,86513	-5,991578E-03
205	51,86516	-5,991543E-03
206	56,09041	-4,184697E-03
207	56,09041	-4,184701E-03
208	55,81461	-5,023306E-03
209	55,81461	-5,023316E-03
210	58,62508	-1,876399E-03
211	58,62505	-1,876423E-03
212	61,6041	-1,03906E-03
213	61,60409	-1,039032E-03
214	59,39347	-2,279409E-03
215	59,39352	-2,279406E-03
216	60,88127	-1,263689E-03
217	60,88128	-0,0012637
218	57,85475	2,209461E-03
219	57,85475	2,209442E-03
220	58,23597	3,868546E-03
221	58,23598	3,868549E-03
222	58,39257	2,679339E-03
223	58,39257	2,679362E-03
224	61,4318	1,097621E-03
225	61,4318	1,097605E-03
226	60,11227	1,361868E-03
227	60,11225	1,36191E-03
228	61,30199	9,960327E-04
229	61,30197	9,960411E-04
230	55,32316	1,281561E-04
231	55,32319	1,281823E-04
232	54,7069	-1,547417E-03
233	54,70686	-1,547416E-03
234	51,42125	1,963961E-03
235	51,42122	1,963954E-03
236	53,77869	4,066224E-03
237	53,77867	4,066242E-03
238	53,82329	4,099997E-03
239	53,82328	4,099952E-03

240	50,94162	5,54916E-03
241	50,94164	5,549138E-03
242	48,31155	3,927443E-03
243	48,31152	3,927436E-03
244	49,64431	5,772289E-03
245	49,64426	5,77231E-03
246	45,18233	2,618197E-03
247	45,18232	2,618186E-03
248	43,92595	3,512858E-03
249	43,92595	3,512839E-03
250	42,44809	2,889669E-03
251	42,4481	2,889679E-03
252	41,08894	2,63972E-03
253	41,08896	2,639741E-03
254	42,38499	1,912525E-04
255	42,38496	1,912701E-04
256	42,01799	-2,61149E-04
257	42,01797	-2,611929E-04
258	42,40123	-1,065361E-03
259	42,40121	-1,065358E-03
260	43,06841	-2,450008E-03
261	43,0684	-2,449997E-03
262	43,83474	-0,0037609
263	43,83478	-3,760895E-03
264	41,29633	-3,166906E-03
265	41,29633	-3,166926E-03
266	42,03765	-4,723749E-04
267	42,03765	-4,72428E-04
268	41,12815	1,080641E-03
269	41,12818	1,080656E-03
270	47,09314	-1,587512E-03
271	47,09312	-1,587517E-03
272	46,99486	-5,178863E-04
273	46,99487	-5,178956E-04
274	49,46622	-1,302596E-03
275	49,46624	-1,302607E-03
276	49,58011	-1,747235E-03
277	49,58012	-1,74722E-03
278	48,75268	-4,215904E-03
279	48,75272	-4,215877E-03
280	47,85352	-5,719781E-03
281	47,85352	-5,719773E-03
282	52,9282	-2,931091E-03
283	52,9282	-2,931072E-03
284	53,09726	-3,33485E-03
285	53,09727	-3,33485E-03
286	56,13769	-2,891373E-03
287	56,13772	-2,891354E-03
288	56,37014	-4,177244E-03
289	56,37015	-4,177261E-03
290	57,45402	-1,918791E-03
291	57,45401	-1,918777E-03
292	58,46244	-2,081223E-03
293	58,46238	-2,081202E-03
294	58,82573	-5,159238E-04
295	58,82577	-5,159404E-04
296	57,08649	-2,197227E-04
297	57,0865	-2,197255E-04
298	57,18484	2,120544E-03
299	57,18483	2,120532E-03
300	57,37606	3,287003E-03
301	57,37606	3,287029E-03
302	57,72858	2,384523E-03
303	57,72855	2,384523E-03
304	57,83345	2,355516E-03
305	57,83341	2,355488E-03

306	55,91602	2,167038E-03
307	55,91601	2,167067E-03
308	58,41047	-1,033123E-04
309	58,41046	-1,032993E-04
310	54,31078	2,361452E-04
311	54,31079	2,361723E-04
312	51,89307	-1,521312E-04
313	51,89307	-1,521759E-04
314	50,44466	2,926348E-03
315	50,44465	2,926331E-03
316	51,22755	2,394457E-03
317	51,22752	2,394473E-03
318	50,53572	2,322672E-03
319	50,53569	2,322675E-03
320	52,4691	3,228487E-03
321	52,4691	3,22847E-03
322	48,22362	4,032036E-03
323	48,22361	4,032005E-03
324	47,3162	3,578873E-03
325	47,3162	3,578897E-03
326	44,44898	1,53143E-03
327	44,449	1,53143E-03
328	44,05578	2,670961E-03
329	44,05578	2,670938E-03
330	43,30058	2,551316E-03
331	43,30055	2,551291E-03
332	44,33149	3,26702E-03
333	44,33152	3,267018E-03
334	43,06516	-4,688129E-04
335	43,06516	-4,687896E-04
336	44,01545	-1,09237E-03
337	44,01545	-1,092392E-03
338	43,07679	-1,369242E-03
339	43,07676	-1,369212E-03
340	45,03881	-2,46654E-03
341	45,03882	-2,466558E-03
342	44,41238	-3,150365E-03
343	44,41244	-3,150365E-03
344	42,71175	-2,734384E-03
345	42,71177	-2,734389E-03
346	45,33314	-1,415338E-03
347	45,33316	-1,41538E-03
348	45,78619	1,510826E-04
349	45,7862	1,510919E-04
350	47,01745	-1,29639E-03
351	47,01743	-1,296422E-03
352	48,72703	-3,912426E-04
353	48,72705	-3,912285E-04
354	50,74858	-1,725319E-03
355	50,7486	-1,725309E-03
356	50,3052	-1,876784E-03
357	50,30519	-1,876745E-03
358	51,57502	-3,397699E-03
359	51,57507	-3,397689E-03
360	49,03109	-2,262677E-03
361	49,03112	-2,262681E-03
362	51,7696	-2,365167E-03
363	51,76958	-2,365149E-03
364	53,86092	-2,505378E-03

x(DT) (s)	H(5 , 2 ,DT) (m)	Q(5 , 2 ,DT) (m3/s)
1	64,79007	0,02697
2	64,79006	0,02697
3	64,79006	0,02697
4	64,79007	0,02697

5	64,79007	0,02697
6	64,79006	2,696999E-02
7	64,79006	2,696999E-02
8	64,79007	0,02697
9	32,59919	3,287525E-03
10	32,59919	3,287531E-03
11	26,36085	4,635876E-03
12	26,36085	4,63588E-03
13	22,71321	3,169027E-03
14	22,71321	3,169033E-03
15	31,4909	6,100228E-03
16	31,49092	6,100231E-03
17	26,3483	1,692594E-03
18	26,34828	1,692592E-03
19	24,46601	1,493738E-03
20	24,46601	1,49374E-03
21	23,27401	1,023605E-03
22	23,27401	0,0010236
23	25,99539	2,933342E-03
24	25,99538	2,933345E-03
25	21,67342	-2,80221E-04
26	21,67341	-2,802238E-04
27	15,96912	1,47391E-03
28	15,96913	0,0014739
29	16,21712	3,194454E-03
30	16,21712	3,194467E-03
31	28,75684	-3,236696E-03
32	28,75684	-3,236701E-03
33	23,13669	1,769157E-03
34	23,1367	1,769159E-03
35	34,97617	-1,009699E-02
36	34,97617	-1,009698E-02
37	40,92404	-1,565101E-02
38	40,92402	-1,565102E-02
39	52,53231	-1,747583E-02
40	52,53231	-1,747582E-02
41	40,38337	-1,858081E-02
42	40,38336	-1,858079E-02
43	37,62288	-1,688803E-02
44	37,62287	-1,688804E-02
45	45,06753	-0,0110102
46	45,06754	-0,0110102
47	50,46248	-1,699904E-02
48	50,46249	-1,699903E-02
49	61,38254	-8,65118E-03
50	61,38253	-8,65118E-03
51	63,8755	-4,653983E-03
52	63,87549	-4,653994E-03
53	72,43785	1,467459E-03
54	72,43786	1,467453E-03
55	68,63381	-3,012087E-03
56	68,6338	-3,012093E-03
57	66,75938	-3,155643E-03
58	66,75939	-3,155638E-03
59	61,80346	-2,363164E-03
60	61,80347	-2,363155E-03
61	68,60796	4,276074E-03
62	68,60795	4,276071E-03
63	75,17331	-1,053531E-03
64	75,17331	-1,053534E-03
65	72,31741	3,164411E-04
66	72,31742	3,164317E-04
67	69,02527	-6,190762E-04
68	69,02527	-6,190576E-04
69	73,58868	-2,191601E-03
70	73,58871	-2,191594E-03

71	70,17416	2,927054E-03
72	70,17416	2,927028E-03
73	65,72983	2,775434E-04
74	65,72982	2,775341E-04
75	54,28279	4,336521E-03
76	54,28279	4,336532E-03
77	59,99391	1,109574E-02
78	59,99395	1,109574E-02
79	52,80901	1,342696E-02
80	52,80901	1,342696E-02
81	54,73109	1,237436E-02
82	54,7311	1,237436E-02
83	52,76311	1,336395E-02
84	52,7631	1,336395E-02
85	55,36231	8,711144E-03
86	55,3623	8,711182E-03
87	50,98106	1,004806E-02
88	50,98106	1,004806E-02
89	40,61078	6,304495E-03
90	40,61076	6,304505E-03
91	35,21462	6,071175E-03
92	35,21461	6,071186E-03
93	33,22657	1,356616E-03
94	33,22658	1,356608E-03
95	40,02662	-1,289211E-04
96	40,02663	-1,288969E-04
97	36,95892	-1,356177E-03
98	36,9589	-1,356171E-03
99	37,44691	3,837228E-03
100	37,44688	3,837203E-03
101	38,22109	-2,87495E-03
102	38,2211	-2,874961E-03
103	35,69311	-9,512845E-04
104	35,69309	-9,512817E-04
105	30,43186	-2,518215E-03
106	30,43186	-2,518225E-03
107	30,39783	-4,492393E-04
108	30,39782	-4,492393E-04
109	36,3595	2,817838E-03
110	36,3595	2,817835E-03
111	40,63763	-5,111145E-04
112	40,63762	-5,111191E-04
113	38,02892	-3,700616E-03
114	38,0289	-3,700603E-03
115	44,95532	-3,516858E-03
116	44,95534	-3,516838E-03
117	45,52968	-6,085149E-03
118	45,52966	-6,085149E-03
119	51,4812	-1,015965E-02
120	51,48121	-1,015966E-02
121	45,55082	-1,090415E-02
122	45,55081	-1,090415E-02
123	48,33055	-1,079511E-02
124	48,33055	-1,079509E-02
125	48,78662	-6,323995E-03
126	48,78665	-6,324025E-03
127	55,40366	-7,130232E-03
128	55,40366	-7,130248E-03
129	57,41386	-6,017476E-03
130	57,41385	-6,017482E-03
131	60,05444	-4,392682E-03
132	60,05442	-0,0043927
133	66,06693	-1,961939E-03
134	66,06696	-1,961932E-03
135	63,213	-1,077902E-03
136	63,21303	-1,077916E-03

137	59,20258	3,239315E-03
138	59,20259	3,239298E-03
139	57,40607	-1,51475E-03
140	57,4061	-1,514731E-03
141	62,8353	2,533009E-03
142	62,83529	2,53305E-03
143	65,62904	8,401182E-04
144	65,62905	8,401256E-04
145	64,22701	1,857027E-03
146	64,22697	1,857029E-03
147	64,84286	1,63899E-03
148	64,84287	1,638994E-03
149	63,62499	5,056057E-04
150	63,62501	5,056374E-04
151	59,26043	-1,834419E-03
152	59,26044	-1,834396E-03
153	56,10731	1,923164E-03
154	56,10731	1,923148E-03
155	52,43705	4,354522E-03
156	52,437	4,354503E-03
157	55,70464	6,349651E-03
158	55,70467	6,34964E-03
159	51,85662	6,946583E-03
160	51,85661	6,946564E-03
161	52,58265	7,103827E-03
162	52,58265	7,103845E-03
163	47,6633	9,497099E-03
164	47,66326	9,497084E-03
165	52,30295	7,215496E-03
166	52,30295	7,215502E-03
167	47,10376	4,539642E-03
168	47,10379	4,539647E-03
169	42,06541	4,467199E-03
170	42,0654	0,0044672
171	38,93866	3,726163E-03
172	38,93867	3,726162E-03
173	40,14645	2,374064E-03
174	40,14645	2,374081E-03
175	41,3188	1,862884E-03
176	41,31879	1,862886E-03
177	40,10532	-3,857751E-03
178	40,10528	-3,857743E-03
179	42,53138	-7,541329E-04
180	42,53136	-7,541245E-04
181	42,71085	-1,732047E-03
182	42,7109	-1,73206E-03
183	38,95298	-1,207996E-03
184	38,95299	-1,208004E-03
185	36,38638	-2,477879E-03
186	36,3864	-2,477901E-03
187	36,76992	-6,440319E-04
188	36,76988	-6,440403E-04
189	41,8576	-1,66688E-03
190	41,85762	-1,666885E-03
191	44,95895	6,867982E-04
192	44,95896	6,867535E-04
193	45,8512	-1,620876E-03
194	45,85119	-1,620876E-03
195	47,40794	-2,380714E-03
196	47,40796	-2,380693E-03
197	48,45626	-5,345805E-03
198	48,45625	-5,345781E-03
199	50,88177	-7,17029E-03
200	50,88181	-7,170263E-03
201	46,5663	-5,858344E-03
202	46,5663	-5,858365E-03

203	51,97582	-5,949417E-03
204	51,97583	-5,949397E-03
205	52,81013	-6,646978E-03
206	52,81018	-6,646952E-03
207	56,55096	-4,50409E-03
208	56,55096	-4,504096E-03
209	55,11526	-4,480805E-03
210	55,11526	-4,480816E-03
211	59,55308	-2,555214E-03
212	59,55303	-2,555219E-03
213	61,34312	-8,458644E-04
214	61,34316	-8,4587E-04
215	59,45502	-2,31893E-03
216	59,45506	-2,318922E-03
217	57,00684	1,58846E-03
218	57,00685	1,588449E-03
219	56,90776	2,900731E-03
220	56,90775	2,900723E-03
221	59,10343	3,213767E-03
222	59,10341	3,213782E-03
223	60,98132	7,668603E-04
224	60,98135	7,668622E-04
225	60,58931	1,71609E-03
226	60,58926	1,716111E-03
227	60,95395	7,405952E-04
228	60,95396	7,406175E-04
229	58,8959	2,765067E-03
230	58,89589	2,765065E-03
231	56,15397	-4,830826E-04
232	56,15398	-4,830454E-04
233	50,67791	1,419324E-03
234	50,67788	1,419321E-03
235	51,16481	2,148345E-03
236	51,16477	2,148343E-03
237	53,7531	4,066704E-03
238	53,75312	4,066693E-03
239	51,35868	5,894534E-03
240	51,35866	5,89449E-03
241	50,68098	5,706742E-03
242	50,68097	5,706746E-03
243	47,69813	4,361614E-03
244	47,69807	4,361626E-03
245	49,50614	5,836973E-03
246	49,50613	5,836965E-03
247	43,93153	3,530794E-03
248	43,93153	3,530776E-03
249	43,59068	3,745828E-03
250	43,59066	3,745816E-03
251	41,92405	3,265933E-03
252	41,92406	3,265949E-03
253	43,39512	9,353608E-04
254	43,39511	9,354008E-04
255	42,50892	1,000389E-04
256	42,50894	1,000166E-04
257	42,75672	-8,045509E-04
258	42,75667	-8,045696E-04
259	43,67976	-2,004703E-03
260	43,67974	-2,004697E-03
261	44,35569	-3,390389E-03
262	44,35571	-3,390401E-03
263	42,17731	-2,525855E-03
264	42,17735	-2,52585E-03
265	39,84655	-2,08919E-03
266	39,84657	-2,089226E-03
267	40,52728	6,390372E-04
268	40,52724	6,390102E-04

269	45,92767	-2,451602E-03
270	45,92768	-2,451586E-03
271	46,31972	-1,015723E-03
272	46,31972	-1,015736E-03
273	48,76656	-1,821009E-03
274	48,76657	-1,821022E-03
275	49,82849	-1,56723E-03
276	49,82849	-1,567228E-03
277	50,85191	-2,679493E-03
278	50,85192	-2,679482E-03
279	49,35482	-4,639169E-03
280	49,35485	-4,639136E-03
281	48,54918	-6,195273E-03
282	48,54917	-6,195258E-03
283	53,30132	-3,196059E-03
284	53,30134	-3,196055E-03
285	54,33798	-4,235297E-03
286	54,33799	-4,235296E-03
287	57,14404	-3,622457E-03
288	57,14408	-3,62245E-03
289	55,39926	-3,443614E-03
290	55,39923	-3,443608E-03
291	58,07564	-2,37203E-03
292	58,0756	-2,371995E-03
293	57,58506	-1,430942E-03
294	57,58508	-1,430975E-03
295	57,75495	2,72138E-04
296	57,75496	2,72138E-04
297	55,54454	9,147227E-04
298	55,54455	9,147227E-04
299	56,47906	2,634792E-03
300	56,47903	2,634794E-03
301	58,15202	2,704153E-03
302	58,15202	2,704177E-03
303	57,79234	2,331305E-03
304	57,79233	2,331296E-03
305	56,992	2,968401E-03
306	56,99194	2,968393E-03
307	58,7027	1,116954E-04
308	58,7027	1,11714E-04
309	56,12806	1,575846E-03
310	56,12805	1,575861E-03
311	53,36512	9,317994E-04
312	53,36517	9,317957E-04
313	49,07385	1,921961E-03
314	49,07383	1,921933E-03
315	51,1869	2,370786E-03
316	51,18686	2,370795E-03
317	50,92095	2,613664E-03
318	50,92093	2,613669E-03
319	50,87951	2,063768E-03
320	50,87951	2,063746E-03
321	49,77198	5,201161E-03
322	49,77199	5,201144E-03
323	48,05272	4,139734E-03
324	48,05267	4,139724E-03
325	47,25462	3,609966E-03
326	47,25464	3,609971E-03
327	43,47234	2,247333E-03
328	43,47236	2,247327E-03
329	43,74782	2,88961E-03
330	43,74781	2,889596E-03
331	43,31988	2,529892E-03
332	43,31987	2,52986E-03
333	46,22667	1,860915E-03
334	46,22666	1,860935E-03

335	43,96523	-1,130738E-03
336	43,96526	-1,130739E-03
337	43,73579	-8,852985E-04
338	43,73574	-8,852817E-04
339	44,81024	-2,642441E-03
340	44,81026	-2,642451E-03
341	45,19995	-2,578338E-03
342	45,19997	-2,578365E-03
343	43,29087	-2,314272E-03
344	43,29092	-2,314259E-03
345	43,13858	-3,040104E-03
346	43,13863	-3,040127E-03
347	44,49706	-7,980242E-04
348	44,49704	-7,980354E-04
349	47,38635	-1,026163E-03
350	47,38638	-1,026163E-03
351	47,25998	-1,472944E-03
352	47,25994	-1,472969E-03
353	50,64706	-1,803618E-03
354	50,64708	-1,803607E-03
355	50,6341	-1,637792E-03
356	50,63408	-1,637759E-03
357	51,98372	-3,107741E-03
358	51,98376	-3,107741E-03
359	49,54306	-1,889993E-03
360	49,54311	-1,889985E-03
361	50,48219	-3,324559E-03
362	50,48219	-3,324535E-03
363	52,92252	-3,207155E-03
364	52,92252	-3,207147E-03

x(DT) (s)	H(5 , 3 ,DT) (m)	Q(5 , 3 ,DT) (m3/s)
1	63,69307	0,02697
2	63,69307	0,02697
3	63,69307	0,02697
4	63,69307	0,02697
5	63,69308	0,02697
6	63,69308	0,02697
7	63,69306	0,02697
8	63,69306	0,02697
9	63,69307	2,697001E-02
10	28,52581	6,272268E-03
11	28,52582	6,272274E-03
12	25,49698	5,247567E-03
13	25,49698	5,247573E-03
14	25,10086	1,401322E-03
15	25,10087	1,401321E-03
16	31,86188	5,786017E-03
17	31,86188	5,786029E-03
18	25,5362	2,286866E-03
19	25,53619	2,286861E-03
20	24,18567	1,697504E-03
21	24,18568	1,697503E-03
22	23,33526	9,773788E-04
23	23,33525	9,773797E-04
24	26,00555	2,91632E-03
25	26,00555	2,916317E-03
26	17,62367	2,699223E-03
27	17,62367	2,699212E-03
28	14,91834	2,244548E-03
29	14,91833	2,244554E-03
30	26,86643	-4,651453E-03
31	26,86644	-4,651449E-03
32	22,55116	1,340379E-03
33	22,55115	1,340376E-03

34	37,17399	-8,561403E-03
35	37,17399	-8,561396E-03
36	41,97436	-1,513237E-02
37	41,97436	-1,513236E-02
38	48,48377	-2,094084E-02
39	48,48376	-2,094085E-02
40	47,57637	-1,349094E-02
41	47,57635	-1,349093E-02
42	38,32283	-1,668184E-02
43	38,32285	-1,668184E-02
44	37,77538	-1,668379E-02
45	37,77538	-0,0166838
46	52,12126	-1,606504E-02
47	52,12126	-1,606504E-02
48	50,68074	-1,683899E-02
49	50,68074	-1,683898E-02
50	60,01191	-7,559786E-03
51	60,01191	-7,559794E-03
52	64,02962	-4,743343E-03
53	64,02962	-4,743358E-03
54	73,57837	6,260033E-04
55	73,57837	6,260033E-04
56	67,80532	-2,392508E-03
57	67,80531	-2,392513E-03
58	63,75098	-9,313491E-04
59	63,751	-9,313463E-04
60	60,69946	-1,544771E-03
61	60,69947	-1,544758E-03
62	75,49953	-8,142663E-04
63	75,49953	-8,142756E-04
64	72,81477	6,828557E-04
65	72,81477	6,828464E-04
66	71,30623	1,060248E-03
67	71,30621	1,060256E-03
68	72,3832	-3,089047E-03
69	72,38322	-3,089046E-03
70	68,40423	1,627877E-03
71	68,40427	1,627879E-03
72	69,73833	3,238184E-03
73	69,73831	3,238169E-03
74	57,21536	6,541458E-03
75	57,21534	6,541457E-03
76	52,50653	5,622432E-03
77	52,50655	5,622423E-03
78	54,55548	1,496014E-02
79	54,5555	1,496015E-02
80	54,23769	1,217586E-02
81	54,23771	1,217586E-02
82	52,81937	1,361089E-02
83	52,81937	0,0136109
84	57,01426	1,003827E-02
85	57,01423	1,003829E-02
86	52,11433	1,101645E-02
87	52,11435	1,101647E-02
88	48,15518	0,012015
89	48,15517	1,201502E-02
90	37,99075	8,187925E-03
91	37,99073	8,18793E-03
92	37,38214	4,435658E-03
93	37,38216	4,435651E-03
94	37,63752	-1,890517E-03
95	37,63751	-1,890508E-03
96	39,32675	3,8598E-04
97	39,32676	3,86006E-04
98	33,67383	1,062667E-03
99	33,67382	1,062662E-03

100	42,3847	1,88213E-04
101	42,38468	1,881777E-04
102	35,65667	-9,791618E-04
103	35,65665	-9,791525E-04
104	34,12808	2,010962E-04
105	34,12807	2,01086E-04
106	29,01511	-1,46889E-03
107	29,01509	-1,468889E-03
108	31,15917	-1,009121E-03
109	31,15916	-1,009128E-03
110	40,75519	-4,248296E-04
111	40,75518	-4,248286E-04
112	41,50216	-1,146846E-03
113	41,50213	-1,146845E-03
114	41,40627	-0,0061701
115	41,40626	-6,170094E-03
116	47,01633	-5,019394E-03
117	47,01634	-5,01937E-03
118	51,38332	-1,035053E-02
119	51,38332	-1,035054E-02
120	49,15217	-8,331691E-03
121	49,15217	-8,331687E-03
122	47,06274	-1,188453E-02
123	47,06272	-1,188453E-02
124	45,66488	-8,704706E-03
125	45,66492	-8,704718E-03
126	52,73687	-9,185777E-03
127	52,73687	-9,18579E-03
128	55,73118	-7,314777E-03
129	55,73116	-7,314784E-03
130	57,68597	-6,177485E-03
131	57,68596	-6,177493E-03
132	61,44516	-5,394408E-03
133	61,44515	-5,394433E-03
134	64,04221	-4,681051E-04
135	64,04225	-4,68109E-04
136	58,26959	2,560197E-03
137	58,26961	2,560191E-03
138	61,5257	1,518579E-03
139	61,5257	1,51857E-03
140	57,37309	-1,487935E-03
141	57,37308	-1,487891E-03
142	65,37756	6,555779E-04
143	65,37758	6,555946E-04
144	64,23374	1,865843E-03
145	64,23373	1,865864E-03
146	64,67877	1,520845E-03
147	64,67876	1,520824E-03
148	65,00044	1,520077E-03
149	65,00044	1,520092E-03
150	63,03221	9,41421E-04
151	63,03223	9,414526E-04
152	55,13152	1,206906E-03
153	55,13155	1,206914E-03
154	52,6017	4,498099E-03
155	52,60167	4,498102E-03
156	52,6876	4,149151E-03
157	52,68758	4,149109E-03
158	53,29533	8,077418E-03
159	53,29535	8,077417E-03
160	52,04196	6,756695E-03
161	52,04192	6,756693E-03
162	48,38086	1,013905E-02
163	48,38085	1,013907E-02
164	51,43269	6,623933E-03
165	51,43265	6,623913E-03

166	51,43688	7,79489E-03
167	51,43689	7,794881E-03
168	44,5877	6,36781E-03
169	44,58771	6,36783E-03
170	40,96983	5,251068E-03
171	40,96981	5,251065E-03
172	40,44592	2,601885E-03
173	40,44592	2,601909E-03
174	41,07365	1,685682E-03
175	41,07366	1,685695E-03
176	44,59762	-5,531535E-04
177	44,59759	-5,531376E-04
178	39,22794	-3,195765E-03
179	39,22791	-3,195763E-03
180	43,28746	-1,309745E-03
181	43,28749	-1,309773E-03
182	40,47802	-8,604671E-05
183	40,47805	-8,604214E-05
184	38,53444	-8,984661E-04
185	38,53447	-8,984858E-04
186	35,33862	-1,700238E-03
187	35,3386	-1,700229E-03
188	40,01617	-0,0030318
189	40,01616	-3,031828E-03
190	41,81273	-1,630786E-03
191	41,81277	-1,63081E-03
192	46,97357	-7,958647E-04
193	46,97354	-7,958757E-04
194	47,15297	-2,575657E-03
195	47,15295	-2,575657E-03
196	49,96521	-4,255782E-03
197	49,96521	-4,255752E-03
198	50,96924	-7,162868E-03
199	50,96925	-7,162857E-03
200	47,88935	-4,911757E-03
201	47,8894	-4,91174E-03
202	49,40601	-7,909408E-03
203	49,40599	-7,909412E-03
204	52,9267	-6,609697E-03
205	52,92672	-6,609685E-03
206	53,29395	-6,953892E-03
207	53,29399	-6,953867E-03
208	55,84442	-3,961788E-03
209	55,84443	-3,961794E-03
210	56,06065	-5,154034E-03
211	56,06062	-5,154026E-03
212	59,29549	-2,358459E-03
213	59,29548	-2,358498E-03
214	61,40135	-8,879114E-04
215	61,40138	-8,879115E-04
216	55,57917	5,384593E-04
217	55,57921	5,384695E-04
218	56,0596	2,28253E-03
219	56,0596	2,28253E-03
220	57,78269	2,247721E-03
221	57,78266	2,247726E-03
222	61,69632	1,294742E-03
223	61,69634	1,294734E-03
224	60,13829	1,386412E-03
225	60,13827	1,386451E-03
226	61,43149	1,093242E-03
227	61,43147	1,093244E-03
228	58,54385	2,513073E-03
229	58,54387	2,513088E-03
230	59,72325	2,147915E-03
231	59,72322	2,147925E-03

232	52,11851	2,486017E-03
233	52,11853	2,486052E-03
234	50,42243	1,605042E-03
235	50,42239	1,605044E-03
236	51,14819	2,155454E-03
237	51,14819	2,155423E-03
238	51,27517	5,871342E-03
239	51,27519	5,871329E-03
240	51,09365	6,050961E-03
241	51,0936	6,050943E-03
242	50,05082	6,13421E-03
243	50,05078	6,134233E-03
244	47,57026	4,434584E-03
245	47,57024	4,434568E-03
246	48,22624	6,740778E-03
247	48,22624	6,740764E-03
248	43,59487	3,764638E-03
249	43,59486	3,764628E-03
250	43,06013	4,120576E-03
251	43,06011	4,120567E-03
252	44,23365	1,554945E-03
253	44,23364	1,55498E-03
254	43,51854	8,435915E-04
255	43,51859	8,435923E-04
256	43,24775	-4,435215E-04
257	43,24774	-4,435177E-04
258	44,03669	-1,745494E-03
259	44,03664	-1,74551E-03
260	44,96907	-2,948778E-03
261	44,96909	-2,948796E-03
262	42,6911	-2,15301E-03
263	42,69112	-2,153022E-03
264	40,72155	-1,447789E-03
265	40,72161	-1,447798E-03
266	38,33672	-9,735851E-04
267	38,33671	-9,735944E-04
268	45,334	-2,897671E-03
269	45,33397	-2,897695E-03
270	45,15501	-1,876495E-03
271	45,15504	-1,876488E-03
272	48,09528	-2,32084E-03
273	48,09529	-2,320857E-03
274	49,13083	-2,085318E-03
275	49,13082	-2,08532E-03
276	51,1027	-2,501927E-03
277	51,1027	-2,501931E-03
278	51,44793	-3,110016E-03
279	51,44794	-3,110002E-03
280	50,0456	-5,123495E-03
281	50,04563	-5,123453E-03
282	48,94715	-6,445469E-03
283	48,94716	-6,445472E-03
284	54,54634	-4,10067E-03
285	54,54635	-4,100666E-03
286	55,35662	-4,964792E-03
287	55,35664	-4,964801E-03
288	56,16629	-2,888574E-03
289	56,1663	-2,888546E-03
290	56,02954	-3,894149E-03
291	56,02949	-3,894124E-03
292	57,19723	-1,719549E-03
293	57,19727	-1,719567E-03
294	56,51439	-6,409851E-04
295	56,51438	-6,410009E-04
296	56,21147	1,407574E-03
297	56,21148	1,407577E-03

298	54,84061	1,431674E-03
299	54,84059	1,431689E-03
300	57,25998	2,05257E-03
301	57,25996	2,052571E-03
302	58,21477	2,64987E-03
303	58,21479	2,649885E-03
304	56,94854	2,946055E-03
305	56,94849	2,946063E-03
306	59,7816	9,063442E-04
307	59,78156	9,063248E-04
308	56,41786	1,792615E-03
309	56,41785	1,792637E-03
310	55,17854	2,271639E-03
311	55,17857	2,271625E-03
312	50,53905	3,009941E-03
313	50,53908	3,009956E-03
314	49,82114	1,36809E-03
315	49,82109	1,368087E-03
316	50,87956	2,590659E-03
317	50,87953	2,590659E-03
318	51,26463	2,353243E-03
319	51,26464	2,353223E-03
320	48,1779	4,046584E-03
321	48,1779	4,046561E-03
322	49,59212	5,303466E-03
323	49,5921	5,303472E-03
324	47,98769	4,168557E-03
325	47,98767	4,16853E-03
326	46,26565	4,323078E-03
327	46,26568	4,323077E-03
328	43,16516	2,467714E-03
329	43,16518	2,467717E-03
330	43,76583	2,867093E-03
331	43,76583	2,867071E-03
332	45,22216	1,123306E-03
333	45,22211	1,123298E-03
334	47,12549	1,195817E-03
335	47,12551	1,195815E-03
336	43,68531	-9,233844E-04
337	43,68528	-9,233453E-04
338	45,47134	-2,16126E-03
339	45,47135	-2,161281E-03
340	44,97251	-2,754073E-03
341	44,97255	-2,754092E-03
342	44,07324	-1,742058E-03
343	44,07325	-1,742073E-03
344	43,71725	-2,622013E-03
345	43,71732	-2,622016E-03
346	42,3054	-2,416888E-03
347	42,3054	-2,416879E-03
348	46,10019	-1,976719E-03
349	46,10018	-1,97674E-03
350	47,6287	-1,203286E-03
351	47,62871	-1,203276E-03
352	49,18618	-2,887624E-03
353	49,18615	-2,88765E-03
354	50,53255	-1,715766E-03
355	50,53254	-1,715731E-03
356	52,31618	-2,872306E-03
357	52,31622	-2,872308E-03
358	49,94497	-1,597139E-03
359	49,94501	-1,597141E-03
360	50,99689	-2,955596E-03
361	50,9969	-2,95556E-03
362	51,64399	-4,167019E-03
363	51,644	-4,167005E-03

364	54,70944	-4,510355E-03

Trecho 6

x(DT) (s)	H(6 , 1 ,DT) (m)	Q(6 , 1 ,DT) (m3/s)
1	63,69307	0,02697
2	63,69307	0,02697
3	63,69307	0,02697
4	63,69307	0,02697
5	63,69308	0,02697
6	63,69308	0,02697
7	63,69306	0,02697
8	63,69306	0,02697
9	63,69307	0,02697
10	28,52581	6,272268E-03
11	28,52582	6,272274E-03
12	25,49698	5,247567E-03
13	25,49698	5,247574E-03
14	25,10086	1,401321E-03
15	25,10087	1,40132E-03
16	31,86188	5,786018E-03
17	31,86188	5,786028E-03
18	25,5362	2,286865E-03
19	25,53619	2,286861E-03
20	24,18567	1,697503E-03
21	24,18568	1,697502E-03
22	23,33526	9,77379E-04
23	23,33525	9,773808E-04
24	26,00555	2,91632E-03
25	26,00555	2,916317E-03
26	17,62367	2,699223E-03
27	17,62367	2,699211E-03
28	14,91834	2,244547E-03
29	14,91833	2,244554E-03
30	26,86643	-4,651453E-03
31	26,86644	-4,651448E-03
32	22,55116	1,34038E-03
33	22,55115	1,340376E-03
34	37,17399	-8,561402E-03
35	37,17399	-8,561398E-03
36	41,97436	-1,513237E-02
37	41,97436	-1,513236E-02
38	48,48377	-2,094084E-02
39	48,48376	-2,094085E-02
40	47,57637	-1,349094E-02
41	47,57635	-1,349093E-02
42	38,32283	-1,668184E-02
43	38,32285	-1,668184E-02
44	37,77538	-1,668379E-02
45	37,77538	-0,0166838
46	52,12126	-1,606504E-02
47	52,12126	-1,606504E-02
48	50,68074	-1,683898E-02
49	50,68074	-1,683898E-02
50	60,01191	-7,559787E-03
51	60,01191	-7,559795E-03
52	64,02962	-4,74334E-03
53	64,02962	-4,743355E-03
54	73,57837	6,260041E-04
55	73,57837	6,260041E-04
56	67,80532	-2,392511E-03
57	67,80531	-2,392516E-03
58	63,75098	-9,313468E-04
59	63,751	-9,313438E-04
60	60,69946	-1,544771E-03
61	60,69947	-1,544756E-03

62	75,49953	-8,142671E-04
63	75,49953	-8,142791E-04
64	72,81477	6,828514E-04
65	72,81477	6,828484E-04
66	71,30623	1,06025E-03
67	71,30621	1,060256E-03
68	72,3832	-3,089046E-03
69	72,38322	-3,089044E-03
70	68,40423	1,627879E-03
71	68,40427	1,627882E-03
72	69,73833	3,238179E-03
73	69,73831	3,23817E-03
74	57,21536	6,541461E-03
75	57,21534	6,541459E-03
76	52,50653	5,622431E-03
77	52,50655	5,62242E-03
78	54,55548	1,496013E-02
79	54,5555	1,496015E-02
80	54,23769	1,217586E-02
81	54,23771	1,217586E-02
82	52,81937	1,361089E-02
83	52,81937	0,0136109
84	57,01426	1,003827E-02
85	57,01423	1,003829E-02
86	52,11433	1,101645E-02
87	52,11435	1,101647E-02
88	48,15518	0,012015
89	48,15517	1,201502E-02
90	37,99075	8,187925E-03
91	37,99073	8,187929E-03
92	37,38214	4,435658E-03
93	37,38216	4,435651E-03
94	37,63752	-1,890517E-03
95	37,63751	-1,890509E-03
96	39,32675	3,859776E-04
97	39,32676	3,860082E-04
98	33,67383	1,062668E-03
99	33,67382	1,062662E-03
100	42,3847	1,882126E-04
101	42,38468	1,881768E-04
102	35,65667	-9,791611E-04
103	35,65665	-9,791515E-04
104	34,12808	2,010983E-04
105	34,12807	2,010868E-04
106	29,01511	-1,468888E-03
107	29,01509	-1,468889E-03
108	31,15917	-1,009121E-03
109	31,15916	-1,009128E-03
110	40,75519	-4,248283E-04
111	40,75518	-4,248295E-04
112	41,50216	-1,146844E-03
113	41,50213	-1,146845E-03
114	41,40627	-6,170098E-03
115	41,40626	-6,170095E-03
116	47,01633	-5,019393E-03
117	47,01634	-5,019371E-03
118	51,38332	-1,035052E-02
119	51,38332	-1,035054E-02
120	49,15217	-8,33169E-03
121	49,15217	-8,331686E-03
122	47,06274	-1,188453E-02
123	47,06272	-1,188453E-02
124	45,66488	-8,704708E-03
125	45,66492	-8,704717E-03
126	52,73687	-9,185777E-03
127	52,73687	-9,185788E-03

128	55,73118	-7,314775E-03
129	55,73116	-7,314784E-03
130	57,68597	-6,177484E-03
131	57,68596	-6,177494E-03
132	61,44516	-5,394407E-03
133	61,44515	-5,394433E-03
134	64,04221	-4,681087E-04
135	64,04225	-4,681079E-04
136	58,26959	2,560195E-03
137	58,26961	2,560192E-03
138	61,5257	1,51858E-03
139	61,5257	1,518568E-03
140	57,37309	-1,487934E-03
141	57,37308	-1,487892E-03
142	65,37756	6,555779E-04
143	65,37758	6,555913E-04
144	64,23374	1,865847E-03
145	64,23373	1,865861E-03
146	64,67877	1,520849E-03
147	64,67876	1,520826E-03
148	65,00044	1,520078E-03
149	65,00044	1,520093E-03
150	63,03221	9,414217E-04
151	63,03223	9,414501E-04
152	55,13152	1,206906E-03
153	55,13155	1,206914E-03
154	52,6017	4,498099E-03
155	52,60167	4,498099E-03
156	52,6876	4,149152E-03
157	52,68758	4,14911E-03
158	53,29533	8,077419E-03
159	53,29535	8,077419E-03
160	52,04196	6,756693E-03
161	52,04192	6,756693E-03
162	48,38086	1,013905E-02
163	48,38085	1,013907E-02
164	51,43269	6,623934E-03
165	51,43265	6,623914E-03
166	51,43688	7,79489E-03
167	51,43689	7,794883E-03
168	44,5877	6,367812E-03
169	44,58771	6,36783E-03
170	40,96983	5,251068E-03
171	40,96981	5,251062E-03
172	40,44592	2,601882E-03
173	40,44592	2,601908E-03
174	41,07365	1,685681E-03
175	41,07366	1,685695E-03
176	44,59762	-5,531521E-04
177	44,59759	-5,531398E-04
178	39,22794	-3,195764E-03
179	39,22791	-3,195764E-03
180	43,28746	-1,309745E-03
181	43,28749	-1,309773E-03
182	40,47802	-8,604808E-05
183	40,47805	-8,604168E-05
184	38,53444	-8,984645E-04
185	38,53447	-8,984842E-04
186	35,33862	-1,700238E-03
187	35,3386	-1,700227E-03
188	40,01617	-3,031798E-03
189	40,01616	-3,031829E-03
190	41,81273	-1,630784E-03
191	41,81277	-1,63081E-03
192	46,97357	-7,958631E-04
193	46,97354	-7,958774E-04

194	47,15297	-2,575659E-03
195	47,15295	-2,575655E-03
196	49,96521	-4,25578E-03
197	49,96521	-4,255754E-03
198	50,96924	-7,162867E-03
199	50,96925	-7,162856E-03
200	47,88935	-4,911758E-03
201	47,8894	-4,911743E-03
202	49,40601	-7,909407E-03
203	49,40599	-7,909415E-03
204	52,9267	-0,0066097
205	52,92672	-6,609685E-03
206	53,29395	-6,953891E-03
207	53,29399	-6,953866E-03
208	55,84442	-3,961789E-03
209	55,84443	-3,961795E-03
210	56,06065	-5,154032E-03
211	56,06062	-5,154028E-03
212	59,29549	-2,358458E-03
213	59,29548	-2,358496E-03
214	61,40135	-8,879091E-04
215	61,40138	-8,879098E-04
216	55,57917	5,384575E-04
217	55,57921	5,384673E-04
218	56,0596	2,282528E-03
219	56,0596	2,282532E-03
220	57,78269	2,247721E-03
221	57,78266	2,247728E-03
222	61,69632	1,294742E-03
223	61,69634	1,294736E-03
224	60,13829	1,38641E-03
225	60,13827	1,386449E-03
226	61,43149	1,093244E-03
227	61,43147	1,093242E-03
228	58,54385	2,513072E-03
229	58,54387	2,513088E-03
230	59,72325	2,147914E-03
231	59,72322	2,147923E-03
232	52,11851	2,486018E-03
233	52,11853	2,48605E-03
234	50,42243	1,605042E-03
235	50,42239	1,605042E-03
236	51,14819	2,155456E-03
237	51,14819	2,155424E-03
238	51,27517	5,871344E-03
239	51,27519	5,871332E-03
240	51,09365	6,050962E-03
241	51,0936	6,050944E-03
242	50,05082	6,134208E-03
243	50,05078	6,134232E-03
244	47,57026	4,434584E-03
245	47,57024	4,434569E-03
246	48,22624	6,74078E-03
247	48,22624	6,740766E-03
248	43,59487	3,764637E-03
249	43,59486	3,764626E-03
250	43,06013	4,120579E-03
251	43,06011	4,120567E-03
252	44,23365	1,554947E-03
253	44,23364	1,554977E-03
254	43,51854	8,435915E-04
255	43,51859	8,435946E-04
256	43,24775	-4,435205E-04
257	43,24774	-4,435202E-04
258	44,03669	-1,745496E-03
259	44,03664	-1,74551E-03

260	44,96907	-2,948776E-03
261	44,96909	-2,948795E-03
262	42,6911	-2,153011E-03
263	42,69112	-2,153022E-03
264	40,72155	-1,44779E-03
265	40,72161	-1,447798E-03
266	38,33672	-9,735866E-04
267	38,33671	-9,735929E-04
268	45,334	-2,897669E-03
269	45,33397	-2,897693E-03
270	45,15501	-1,876497E-03
271	45,15504	-1,876489E-03
272	48,09528	-2,320841E-03
273	48,09529	-2,320855E-03
274	49,13083	-2,085319E-03
275	49,13082	-2,08532E-03
276	51,1027	-2,501929E-03
277	51,1027	-2,501929E-03
278	51,44793	-3,110019E-03
279	51,44794	-3,110001E-03
280	50,0456	-5,123498E-03
281	50,04563	-5,123455E-03
282	48,94715	-6,445469E-03
283	48,94716	-6,445474E-03
284	54,54634	-4,100668E-03
285	54,54635	-4,100666E-03
286	55,35662	-4,964792E-03
287	55,35664	-4,964801E-03
288	56,16629	-2,888575E-03
289	56,1663	-2,888546E-03
290	56,02954	-3,894151E-03
291	56,02949	-3,894124E-03
292	57,19723	-1,719549E-03
293	57,19727	-1,719567E-03
294	56,51439	-6,409829E-04
295	56,51438	-0,000641
296	56,21147	1,407574E-03
297	56,21148	1,407577E-03
298	54,84061	1,431676E-03
299	54,84059	1,431691E-03
300	57,25998	2,052568E-03
301	57,25996	2,052571E-03
302	58,21477	2,64987E-03
303	58,21479	2,649887E-03
304	56,94854	2,946053E-03
305	56,94849	2,946066E-03
306	59,7816	9,063447E-04
307	59,78156	9,063266E-04
308	56,41786	1,792615E-03
309	56,41785	1,792635E-03
310	55,17854	2,271637E-03
311	55,17857	2,271627E-03
312	50,53905	3,009942E-03
313	50,53908	3,009958E-03
314	49,82114	1,368092E-03
315	49,82109	1,368088E-03
316	50,87956	2,590659E-03
317	50,87953	2,590662E-03
318	51,26463	2,353241E-03
319	51,26464	2,353221E-03
320	48,1779	4,046585E-03
321	48,1779	4,046559E-03
322	49,59212	5,303465E-03
323	49,5921	5,303474E-03
324	47,98769	4,168556E-03
325	47,98767	4,16853E-03

326	46,26565	4,323076E-03
327	46,26568	4,323078E-03
328	43,16516	2,467714E-03
329	43,16518	2,467719E-03
330	43,76583	2,867093E-03
331	43,76583	2,867069E-03
332	45,22216	1,123306E-03
333	45,22211	1,123297E-03
334	47,12549	1,195817E-03
335	47,12551	1,195818E-03
336	43,68531	-9,233856E-04
337	43,68528	-9,233469E-04
338	45,47134	-2,16126E-03
339	45,47135	-2,161282E-03
340	44,97251	-2,754074E-03
341	44,97255	-2,754094E-03
342	44,07324	-1,74206E-03
343	44,07325	-1,742073E-03
344	43,71725	-2,622011E-03
345	43,71732	-2,622019E-03
346	42,3054	-2,416888E-03
347	42,3054	-2,416879E-03
348	46,10019	-1,976721E-03
349	46,10018	-1,97674E-03
350	47,6287	-1,203286E-03
351	47,62871	-1,203277E-03
352	49,18618	-2,887625E-03
353	49,18615	-2,88765E-03
354	50,53255	-1,715767E-03
355	50,53254	-1,715729E-03
356	52,31618	-2,872305E-03
357	52,31622	-2,872307E-03
358	49,94497	-1,597137E-03
359	49,94501	-1,597142E-03
360	50,99689	-2,955594E-03
361	50,9969	-2,955561E-03
362	51,64399	-4,167017E-03
363	51,644	-4,167007E-03
364	54,70944	-4,510352E-03

x(DT) (s)	H(6 , 2 ,DT) (m)	Q(6 , 2 ,DT) (m3/s)
1	62,32182	0,02697
2	62,32182	0,02697
3	62,32182	0,02697
4	62,32182	0,02697
5	62,32182	0,02697
6	62,32183	2,697001E-02
7	62,32183	2,697001E-02
8	62,32181	0,02697
9	62,32182	0,02697
10	62,32183	0,02697
11	27,80311	6,653966E-03
12	27,80311	6,653974E-03
13	28,52941	3,432273E-03
14	28,52942	3,432273E-03
15	24,7521	1,604405E-03
16	24,75209	1,604411E-03
17	31,60737	5,898664E-03
18	31,60738	5,89867E-03
19	25,35131	2,389879E-03
20	25,35131	2,389872E-03
21	24,36716	1,587496E-03
22	24,36715	0,0015875
23	23,02102	1,161268E-03
24	23,02102	1,161264E-03

25	21,9647	5,285134E-03
26	21,96471	5,285122E-03
27	16,64033	3,269885E-03
28	16,64031	3,269889E-03
29	26,76722	-4,734716E-03
30	26,76722	-4,734717E-03
31	19,639	-3,737314E-04
32	19,63901	-3,737253E-04
33	38,33245	-7,949712E-03
34	38,33244	-7,949712E-03
35	45,39276	-1,331724E-02
36	45,39275	-1,331724E-02
37	50,75831	-2,004811E-02
38	50,75832	-0,0200481
39	42,38244	-1,686335E-02
40	42,38242	-1,686334E-02
41	45,97566	-0,0123469
42	45,97567	-0,0123469
43	38,57027	-1,651871E-02
44	38,57029	-1,651871E-02
45	45,0881	-2,067886E-02
46	45,08809	-2,067887E-02
47	52,5439	-1,602743E-02
48	52,54389	-1,602743E-02
49	47,9401	-1,491137E-02
50	47,94011	-1,491137E-02
51	59,73262	-7,331996E-03
52	59,73262	-7,332007E-03
53	64,28606	-4,869303E-03
54	64,28605	-4,869308E-03
55	73,25521	8,157678E-04
56	73,25521	8,157659E-04
57	64,54243	-4,657824E-04
58	64,54243	-4,657861E-04
59	62,74728	-3,396533E-04
60	62,74728	-3,39644E-04
61	67,51019	-5,550589E-03
62	67,51022	-5,550582E-03
63	72,88541	7,250141E-04
64	72,88541	7,25003E-04
65	71,73781	1,31618E-03
66	71,7378	1,316188E-03
67	75,37034	-1,332933E-03
68	75,37035	-1,332941E-03
69	66,39529	4,457347E-04
70	66,39532	4,457347E-04
71	67,69683	2,041277E-03
72	67,69685	2,04129E-03
73	60,5908	8,610334E-03
74	60,59077	8,610331E-03
75	55,5487	7,474899E-03
76	55,54871	7,47488E-03
77	45,47931	9,723238E-03
78	45,47931	9,723243E-03
79	56,37561	1,364058E-02
80	56,37563	1,364059E-02
81	52,00226	1,332704E-02
82	52,00226	1,332705E-02
83	57,67239	1,054909E-02
84	57,67237	1,054911E-02
85	53,50273	1,199319E-02
86	53,50272	1,199319E-02
87	49,01995	0,012703
88	49,01995	1,270302E-02
89	46,02621	1,310784E-02
90	46,02621	1,310785E-02

91	40,77142	6,476969E-03
92	40,77143	6,476958E-03
93	42,86432	1,187286E-03
94	42,86431	1,187295E-03
95	36,55299	-1,248251E-03
96	36,55297	-1,248236E-03
97	35,91988	2,39093E-03
98	35,91991	2,390944E-03
99	38,77464	-1,940672E-03
100	38,77465	-1,940688E-03
101	40,01001	1,585798E-03
102	40,00996	1,585782E-03
103	33,89059	6,132945E-05
104	33,8906	6,13248E-05
105	32,98957	8,711256E-04
106	32,98955	8,711228E-04
107	29,70188	-1,870693E-03
108	29,70187	-1,870699E-03
109	35,47362	-3,547266E-03
110	35,47361	-3,547268E-03
111	41,74318	-1,006112E-03
112	41,74316	-1,006109E-03
113	45,73539	-3,636859E-03
114	45,73537	-3,636865E-03
115	43,3192	-7,253719E-03
116	43,31919	-7,253712E-03
117	53,82897	-9,001029E-03
118	53,82901	-9,001022E-03
119	48,72444	-8,66677E-03
120	48,72443	-8,666775E-03
121	51,27634	-9,504851E-03
122	51,27633	-9,50484E-03
123	43,88716	-9,858827E-03
124	43,88718	-9,858848E-03
125	49,79612	-1,105209E-02
126	49,79614	-1,105209E-02
127	52,80265	-9,130868E-03
128	52,80264	-9,130874E-03
129	55,84336	-7,321429E-03
130	55,84335	-7,321442E-03
131	58,98112	-6,897406E-03
132	58,98112	-6,897422E-03
133	58,59882	-3,686904E-03
134	58,59882	-3,686933E-03
135	58,57631	2,749097E-03
136	58,57634	2,749104E-03
137	60,77527	1,078201E-03
138	60,77528	1,078201E-03
139	61,99994	1,236908E-03
140	61,99989	1,236921E-03
141	59,56366	-2,774742E-03
142	59,56369	-2,774721E-03
143	63,77466	1,598489E-03
144	63,77467	1,598511E-03
145	64,74377	1,561809E-03
146	64,74379	1,561804E-03
147	64,83617	1,42565E-03
148	64,83613	1,425643E-03
149	64,50266	1,810491E-03
150	64,50266	1,810506E-03
151	58,84456	3,405085E-03
152	58,8446	0,0034051
153	51,05698	3,603363E-03
154	51,057	3,603383E-03
155	52,90462	4,297367E-03
156	52,90463	4,297343E-03

157	49,6047	0,0059445
158	49,60466	5,944467E-03
159	53,67206	7,783305E-03
160	53,67205	7,783321E-03
161	47,20893	9,55052E-03
162	47,2089	9,550517E-03
163	52,7437	7,457234E-03
164	52,74371	7,457242E-03
165	50,34961	7,212697E-03
166	50,34959	7,212668E-03
167	49,08917	9,109223E-03
168	49,08916	9,10923E-03
169	43,64468	6,87784E-03
170	43,6447	6,877853E-03
171	42,91683	4,074564E-03
172	42,9168	4,074566E-03
173	41,52814	1,957424E-03
174	41,52816	1,957444E-03
175	44,73515	-4,724525E-04
176	44,73515	-4,724301E-04
177	44,15816	-2,941713E-04
178	44,15815	-2,941648E-04
179	39,67628	-3,448302E-03
180	39,67631	-3,448334E-03
181	40,84476	1,298152E-04
182	40,84476	1,298049E-04
183	40,19641	7,969793E-05
184	40,19646	7,969141E-05
185	37,61855	-3,58521E-04
186	37,61853	-3,585117E-04
187	38,82458	-3,748701E-03
188	38,8246	-3,748712E-03
189	39,7406	-2,859412E-03
190	39,74061	-2,859456E-03
191	43,69341	-2,734707E-03
192	43,6934	-2,734706E-03
193	48,57874	-1,739882E-03
194	48,5787	-1,739891E-03
195	50,0097	-4,249633E-03
196	50,00968	-4,249623E-03
197	52,98809	-6,014805E-03
198	52,98811	-6,014791E-03
199	47,58992	-5,117042E-03
200	47,58995	-5,117037E-03
201	51,26154	-6,869694E-03
202	51,26157	-6,869669E-03
203	50,18609	-8,29911E-03
204	50,18607	-8,299121E-03
205	53,48868	-6,891982E-03
206	53,4887	-6,891969E-03
207	52,10911	-6,202902E-03
208	52,10916	-6,202879E-03
209	57,00035	-4,624698E-03
210	57,00033	-4,624688E-03
211	55,34901	-4,705727E-03
212	55,34903	-4,705753E-03
213	59,10911	-2,242593E-03
214	59,10909	-2,242623E-03
215	57,277	1,540355E-03
216	57,27703	1,540357E-03
217	54,33593	1,269846E-03
218	54,33595	1,269866E-03
219	56,94289	1,756884E-03
220	56,94288	1,756897E-03
221	60,54398	6,169546E-04
222	60,54399	6,169397E-04

223	60,8348	1,799934E-03
224	60,83476	1,799962E-03
225	61,03144	8,586142E-04
226	61,03146	8,586328E-04
227	58,77369	2,656171E-03
228	58,77367	2,656167E-03
229	59,43411	0,0019821
230	59,43411	1,982125E-03
231	55,60966	4,563851E-03
232	55,60964	4,563858E-03
233	52,00697	2,544811E-03
234	52,00698	2,544843E-03
235	50,31266	1,666787E-03
236	50,31267	1,666761E-03
237	48,03554	3,982254E-03
238	48,03554	3,982225E-03
239	50,96521	6,015521E-03
240	50,96521	6,015526E-03
241	50,42837	6,401888E-03
242	50,42829	6,401892E-03
243	50,18489	6,013552E-03
244	50,18489	6,01355E-03
245	45,89301	5,399908E-03
246	45,893	5,399886E-03
247	48,35485	6,614673E-03
248	48,35484	6,614664E-03
249	42,9959	4,101439E-03
250	42,99588	4,101429E-03
251	45,80468	2,486433E-03
252	45,80463	2,486441E-03
253	44,47627	1,409471E-03
254	44,47631	1,40947E-03
255	44,47586	2,793698E-04
256	44,47588	2,793903E-04
257	44,75015	-1,327542E-03
258	44,75013	-1,327538E-03
259	45,53448	-2,623643E-03
260	45,53447	-2,623677E-03
261	43,16557	-1,877673E-03
262	43,16558	-1,87769E-03
263	41,11298	-1,219062E-03
264	41,11301	-1,219084E-03
265	39,12849	-5,078726E-04
266	39,12852	-5,078586E-04
267	43,48595	-4,003122E-03
268	43,48594	-4,003129E-03
269	44,39002	-2,332769E-03
270	44,38999	-2,332798E-03
271	47,01425	-2,96685E-03
272	47,01429	-2,966846E-03
273	48,42398	-2,508318E-03
274	48,42397	-2,508321E-03
275	50,48259	-2,876074E-03
276	50,48259	-2,876079E-03
277	51,80579	-2,908789E-03
278	51,80578	-2,908783E-03
279	52,47937	-3,706342E-03
280	52,47937	-3,706315E-03
281	50,67233	-5,463229E-03
282	50,67238	-5,463206E-03
283	49,83908	-6,924325E-03
284	49,83909	-6,924327E-03
285	55,72292	-4,774492E-03
286	55,72295	-0,0047745
287	54,03717	-4,160879E-03
288	54,03715	-4,160865E-03

289	56,97065	-3,35273E-03
290	56,97064	-3,352684E-03
291	54,7896	-3,147556E-03
292	54,78963	-3,147577E-03
293	55,94321	-9,782109E-04
294	55,94322	-9,782184E-04
295	54,62276	4,727878E-04
296	54,62275	4,727747E-04
297	55,50056	1,823782E-03
298	55,50055	1,823801E-03
299	55,51989	1,029609E-03
300	55,51988	1,029622E-03
301	57,22193	2,070289E-03
302	57,22192	2,070285E-03
303	57,31393	3,172272E-03
304	57,31392	3,172303E-03
305	60,08859	1,088338E-03
306	60,08857	1,088338E-03
307	57,34086	2,341934E-03
308	57,34081	2,341922E-03
309	55,3828	2,398236E-03
310	55,38284	2,398228E-03
311	52,21154	4,012145E-03
312	52,21154	4,012149E-03
313	51,56096	2,398445E-03
314	51,56096	2,398477E-03
315	49,30734	1,668416E-03
316	49,30729	1,668408E-03
317	51,26222	2,357995E-03
318	51,26223	2,357975E-03
319	48,26152	4,11458E-03
320	48,26153	4,114561E-03
321	47,7847	4,259839E-03
322	47,78466	4,259836E-03
323	49,70199	5,207598E-03
324	49,702	5,207586E-03
325	46,9577	4,755474E-03
326	46,95768	4,755448E-03
327	46,25651	4,307719E-03
328	46,25653	4,307728E-03
329	43,11462	2,490706E-03
330	43,11465	2,490699E-03
331	45,96537	1,563433E-03
332	45,96533	1,563431E-03
333	46,1107	5,989568E-04
334	46,11068	5,989298E-04
335	47,20316	1,148517E-03
336	47,20313	1,148551E-03
337	45,6348	-2,069814E-03
338	45,63484	-2,069812E-03
339	45,73499	-2,311245E-03
340	45,735	-2,311275E-03
341	43,67398	-1,981405E-03
342	43,67399	-1,981412E-03
343	44,64973	-2,077987E-03
344	44,64977	-2,078015E-03
345	42,84771	-2,102614E-03
346	42,84773	-2,102595E-03
347	43,84473	-3,316377E-03
348	43,84475	-3,316381E-03
349	46,21498	-2,039948E-03
350	46,21496	-2,039958E-03
351	49,84564	-2,506466E-03
352	49,84566	-2,506461E-03
353	48,87854	-2,697311E-03
354	48,87846	-2,697311E-03

355	52,41718	-2,821701E-03
356	52,41722	-2,821696E-03
357	50,05726	-1,533659E-03
358	50,0573	-1,533664E-03
359	51,63372	-2,58822E-03
360	51,63371	-2,588199E-03
361	52,37112	-3,754708E-03
362	52,37115	-3,754687E-03
363	53,51071	-5,246407E-03
364	53,5107	-5,24639E-03

x(DT) (s)	H(6 , 3 ,DT) (m)	Q(6 , 3 ,DT) (m3/s)
1	60,95058	0,02697
2	60,95058	0,02697
3	60,95058	0,02697
4	60,95058	0,02697
5	60,95058	0,02697
6	60,95058	0,02697
7	60,95059	2,697001E-02
8	60,95059	2,697001E-02
9	60,95057	0,02697
10	60,95057	0,02697
11	60,95058	2,697001E-02
12	30,83962	0,0048177
13	30,83963	4,817701E-03
14	28,17008	3,630688E-03
15	28,17008	3,630696E-03
16	24,52631	1,734437E-03
17	24,52631	1,734438E-03
18	31,39364	5,985851E-03
19	31,39365	5,985856E-03
20	25,53062	2,278012E-03
21	25,5306	2,27801E-03
22	24,05086	1,770858E-03
23	24,05086	1,770857E-03
24	18,97637	3,540256E-03
25	18,97638	3,540245E-03
26	20,95599	5,847817E-03
27	20,95597	5,847821E-03
28	28,50704	-3,726149E-03
29	28,50704	-3,726153E-03
30	19,51958	-4,44234E-04
31	19,51958	-4,442338E-04
32	35,51094	-9,715031E-03
33	35,51095	-9,715022E-03
34	46,63575	-1,276651E-02
35	46,63574	-1,276651E-02
36	54,27826	-1,835004E-02
37	54,27826	-1,835004E-02
38	44,48218	-1,590834E-02
39	44,48217	-1,590832E-02
40	40,84076	-1,564047E-02
41	40,84076	-1,564048E-02
42	46,10229	-1,225229E-02
43	46,10231	-1,225229E-02
44	46,02066	-2,060089E-02
45	46,02066	-2,060088E-02
46	45,6653	-2,054412E-02
47	45,66529	-2,054413E-02
48	49,72291	-1,408212E-02
49	49,72291	-1,408213E-02
50	47,80749	-1,458662E-02
51	47,8075	-1,458662E-02
52	60,02004	-7,441515E-03
53	60,02003	-7,441517E-03

54	63,98378	-4,665088E-03
55	63,98377	-4,665096E-03
56	69,97984	2,742755E-03
57	69,97984	2,742755E-03
58	63,53789	1,256787E-04
59	63,53788	1,256817E-04
60	69,57366	-0,0043572
61	69,57367	-4,357196E-03
62	64,91042	-3,986306E-03
63	64,91045	-3,986301E-03
64	71,80715	1,359044E-03
65	71,80713	1,359042E-03
66	75,80408	-1,078948E-03
67	75,80408	-1,078953E-03
68	69,36887	2,201212E-03
69	69,36887	2,201204E-03
70	65,68969	8,607926E-04
71	65,6897	8,608022E-04
72	58,50694	7,445378E-03
73	58,50695	7,445398E-03
74	58,87876	9,535698E-03
75	58,87877	9,535677E-03
76	48,42431	1,160598E-02
77	48,42429	1,160597E-02
78	47,44289	8,462674E-03
79	47,44289	8,462673E-03
80	54,07376	1,478889E-02
81	54,07378	1,478891E-02
82	56,93127	0,010229
83	56,93125	1,022902E-02
84	54,10801	1,252344E-02
85	54,10801	1,252345E-02
86	50,34604	1,369147E-02
87	50,34602	1,369148E-02
88	46,84747	1,380257E-02
89	46,84748	1,380259E-02
90	48,74941	1,131446E-02
91	48,74944	1,131446E-02
92	46,2625	3,198643E-03
93	46,26249	3,198648E-03
94	41,77327	1,827859E-03
95	41,77325	1,827874E-03
96	33,14572	7,588331E-04
97	33,14573	7,588324E-04
98	41,02212	-6,183389E-04
99	41,02216	-6,183342E-04
100	36,40026	-5,390497E-04
101	36,40024	-5,390455E-04
102	38,23653	2,626795E-03
103	38,2365	2,626765E-03
104	32,75161	7,316714E-04
105	32,75161	7,316759E-04
106	33,6741	4,674029E-04
107	33,67409	4,673943E-04
108	34,03375	-4,416341E-03
109	34,03374	-4,416343E-03
110	36,47747	-4,124125E-03
111	36,47745	-4,124121E-03
112	45,98674	-3,502539E-03
113	45,98673	-3,502541E-03
114	47,63362	-4,739386E-03
115	47,63359	-4,739388E-03
116	50,22763	-1,126131E-02
117	50,22765	-1,126131E-02
118	51,11956	-7,316514E-03
119	51,11958	-7,316495E-03

120	50,87461	-9,848915E-03
121	50,87458	-9,848913E-03
122	48,02048	-7,488375E-03
123	48,02052	-7,488389E-03
124	48,08781	-1,222328E-02
125	48,08782	-1,222329E-02
126	49,8959	-1,097529E-02
127	49,89592	-1,097528E-02
128	52,94281	-9,120855E-03
129	52,9428	-9,120863E-03
130	57,16345	-8,038898E-03
131	57,16345	-8,038917E-03
132	56,13253	-5,16808E-03
133	56,13254	-5,168098E-03
134	53,13291	-4,548524E-04
135	53,13289	-4,548751E-04
136	61,08666	1,263239E-03
137	61,08669	1,263251E-03
138	61,25109	7,968706E-04
139	61,25105	7,968983E-04
140	64,18843	-5,282763E-05
141	64,18842	-5,283728E-05
142	57,96431	-1,824899E-03
143	57,96432	-1,824869E-03
144	64,28638	1,294477E-03
145	64,28642	1,294481E-03
146	64,90131	1,466379E-03
147	64,90131	1,466391E-03
148	64,33778	1,716723E-03
149	64,33774	1,716716E-03
150	60,29856	4,281176E-03
151	60,29859	4,281178E-03
152	54,7396	5,808201E-03
153	54,73962	5,808227E-03
154	51,36804	3,405885E-03
155	51,36809	3,405881E-03
156	49,80284	6,102434E-03
157	49,80283	6,102422E-03
158	50,01267	5,665177E-03
159	50,0126	5,665162E-03
160	48,77621	1,059755E-02
161	48,7762	1,059756E-02
162	51,62444	6,850566E-03
163	51,62442	6,850554E-03
164	51,64098	8,044536E-03
165	51,64101	8,044537E-03
166	47,99037	8,543509E-03
167	47,99033	8,543495E-03
168	48,09748	9,600814E-03
169	48,09748	9,600817E-03
170	45,58724	5,682059E-03
171	45,58724	5,682079E-03
172	43,9944	3,421937E-03
173	43,99438	3,421936E-03
174	45,19236	-2,034082E-04
175	45,19236	-2,033788E-04
176	44,29546	-2,134196E-04
177	44,29546	-2,134028E-04
178	44,59716	-5,524481E-04
179	44,5972	-5,524739E-04
180	37,23573	-1,998717E-03
181	37,23572	-1,99873E-03
182	40,56306	2,955861E-04
183	40,56309	2,955633E-04
184	39,2794	6,193997E-04
185	39,2794	6,194221E-04

186	41,10728	-2,411672E-03
187	41,10729	-2,411685E-03
188	38,55238	-3,572904E-03
189	38,55242	-3,572928E-03
190	41,63358	-3,964457E-03
191	41,63354	-3,964475E-03
192	45,31073	-3,678286E-03
193	45,31071	-3,678279E-03
194	51,44025	-3,420669E-03
195	51,4402	-3,420671E-03
196	53,04966	-6,018764E-03
197	53,04965	-6,018766E-03
198	49,57525	-3,96603E-03
199	49,57528	-3,966021E-03
200	50,98671	-7,087172E-03
201	50,98672	-7,08716E-03
202	52,03248	-7,271071E-03
203	52,03252	-7,271049E-03
204	50,77612	-8,569954E-03
205	50,7761	-8,569965E-03
206	52,29375	-6,136003E-03
207	52,29378	-6,135993E-03
208	53,29458	-6,857919E-03
209	53,2946	-6,857881E-03
210	56,28013	-4,17708E-03
211	56,28016	-4,177099E-03
212	55,17717	-4,580017E-03
213	55,17717	-4,580033E-03
214	54,98398	1,908351E-04
215	54,98396	1,908076E-04
216	56,02917	2,272135E-03
217	56,02918	2,272147E-03
218	55,22361	7,456101E-04
219	55,22362	7,456407E-04
220	59,70893	1,255033E-04
221	59,70895	1,254958E-04
222	59,68285	1,123354E-03
223	59,68279	1,123373E-03
224	61,72824	1,270504E-03
225	61,72823	1,270512E-03
226	58,36923	2,424648E-03
227	58,36924	2,424664E-03
228	59,66565	2,123378E-03
229	59,66562	2,123381E-03
230	55,30657	4,407011E-03
231	55,30657	4,407036E-03
232	55,48387	4,614776E-03
233	55,48385	4,614785E-03
234	51,89323	2,604563E-03
235	51,8933	2,604568E-03
236	47,19284	3,499875E-03
237	47,19285	3,499852E-03
238	47,74194	4,137458E-03
239	47,74191	4,137444E-03
240	50,29621	6,369115E-03
241	50,29617	6,36914E-03
242	50,56075	6,278503E-03
243	50,56072	6,27848E-03
244	48,4803	6,976665E-03
245	48,48032	6,976658E-03
246	46,03815	5,282133E-03
247	46,03813	5,282118E-03
248	47,72387	6,937491E-03
249	47,72386	6,937484E-03
250	45,75074	2,46141E-03
251	45,75069	2,46142E-03

252	46,04442	2,338473E-03
253	46,04442	2,33845E-03
254	45,43359	8,43834E-04
255	45,43361	8,438515E-04
256	45,97842	-6,050508E-04
257	45,97843	-6,050259E-04
258	46,24967	-2,208129E-03
259	46,24968	-2,208145E-03
260	43,72505	-1,551061E-03
261	43,72503	-1,551093E-03
262	41,58392	-9,428764E-04
263	41,58394	-9,429052E-04
264	39,51802	-2,787016E-04
265	39,51802	-2,787016E-04
266	44,28868	-3,544619E-03
267	44,2887	-3,544605E-03
268	42,54515	-3,431634E-03
269	42,54515	-3,431645E-03
270	46,257	-3,425548E-03
271	46,25698	-3,425581E-03
272	47,34724	-3,153064E-03
273	47,34726	-3,153049E-03
274	49,78191	-3,300549E-03
275	49,7819	-3,300556E-03
276	51,18994	-3,283208E-03
277	51,18993	-3,283207E-03
278	52,83971	-3,507915E-03
279	52,83969	-3,507902E-03
280	53,09684	-4,054516E-03
281	53,09687	-4,054508E-03
282	51,55849	-5,951667E-03
283	51,55854	-5,951643E-03
284	51,05407	-7,586207E-03
285	51,05409	-7,58622E-03
286	54,39508	-3,967696E-03
287	54,39507	-3,96768E-03
288	54,85381	-4,622306E-03
289	54,85377	-4,622276E-03
290	55,72282	-2,605843E-03
291	55,72288	-2,605844E-03
292	53,53822	-2,400063E-03
293	53,53823	-2,400071E-03
294	54,05119	1,364037E-04
295	54,05119	1,364015E-04
296	53,91298	8,902854E-04
297	53,91294	8,902893E-04
298	56,17987	1,420281E-03
299	56,17987	1,420298E-03
300	55,48477	0,0010491
301	55,48477	1,049109E-03
302	56,32136	2,595568E-03
303	56,32132	2,595578E-03
304	60,46055	1,309158E-03
305	60,46056	1,309174E-03
306	57,64261	2,52661E-03
307	57,64258	2,526615E-03
308	56,30064	2,948073E-03
309	56,30062	2,948035E-03
310	52,40447	4,144755E-03
311	52,40448	4,144763E-03
312	53,23112	3,394205E-03
313	53,23111	3,394225E-03
314	51,04206	2,697462E-03
315	51,04207	2,697488E-03
316	49,69438	1,437534E-03
317	49,69437	1,437501E-03

318	48,24829	4,125681E-03
319	48,2483	4,125659E-03
320	47,86609	4,328528E-03
321	47,86606	4,328533E-03
322	47,90469	4,169083E-03
323	47,90468	4,16906E-03
324	48,65675	5,792682E-03
325	48,65676	5,79267E-03
326	46,94502	4,737846E-03
327	46,94499	4,737827E-03
328	46,19408	4,323872E-03
329	46,19412	4,323868E-03
330	45,32058	1,185502E-03
331	45,32057	1,185518E-03
332	46,85408	1,037669E-03
333	46,85407	1,037649E-03
334	46,18943	5,522216E-04
335	46,18935	5,522278E-04
336	49,15185	1,520945E-07
337	49,15188	1,48652E-07
338	45,89868	-2,220371E-03
339	45,89874	-2,220379E-03
340	44,43153	-1,538169E-03
341	44,43153	-1,538187E-03
342	44,25267	-2,31764E-03
343	44,25271	-2,317663E-03
344	43,776	-1,558963E-03
345	43,77599	-1,558963E-03
346	44,39005	-3,00545E-03
347	44,39008	-3,005443E-03
348	43,96658	-3,375891E-03
349	43,96658	-3,375886E-03
350	48,44111	-3,345523E-03
351	48,4411	-3,345538E-03
352	49,5352	-2,316786E-03
353	49,53518	-2,316756E-03
354	50,77403	-3,804836E-03
355	50,77402	-3,80487E-03
356	50,15254	-1,480012E-03
357	50,15259	-1,48001E-03
358	51,74962	-2,527089E-03
359	51,74961	-2,527068E-03
360	53,01056	-3,391127E-03
361	53,01057	-3,391117E-03
362	54,24356	-4,84109E-03
363	54,24358	-4,841062E-03
364	53,2487[illegible]	-5,061669E-03

Trecho 7

x(DT) (s)	H(7 , 1 ,DT) (m)	Q(7 , 1 ,DT) (m3/s)
1	60,95058	0,02697
2	60,95058	0,02697
3	60,95058	0,02697
4	60,95058	0,02697
5	60,95058	0,02697
6	60,95058	0,02697
7	60,95059	2,697001E-02
8	60,95059	0,02697
9	60,95057	0,02697
10	60,95057	2,696999E-02
11	60,95058	0,02697
12	30,83962	4,817698E-03
13	30,83963	4,817701E-03
14	28,17008	3,630689E-03
15	28,17008	3,630695E-03

16	24,52631	1,734435E-03
17	24,52631	1,734437E-03
18	31,39364	5,98585E-03
19	31,39365	5,985857E-03
20	25,53062	2,278013E-03
21	25,5306	2,278011E-03
22	24,05086	1,770858E-03
23	24,05086	1,770857E-03
24	18,97637	3,540255E-03
25	18,97638	3,540243E-03
26	20,95599	5,847816E-03
27	20,95597	5,847821E-03
28	28,50704	-3,726149E-03
29	28,50704	-3,726153E-03
30	19,51958	-4,442352E-04
31	19,51958	-4,442347E-04
32	35,51094	-9,715032E-03
33	35,51095	-9,715022E-03
34	46,63575	-1,276651E-02
35	46,63574	-1,276651E-02
36	54,27826	-1,835004E-02
37	54,27826	-1,835004E-02
38	44,48218	-1,590834E-02
39	44,48217	-1,590832E-02
40	40,84076	-1,564047E-02
41	40,84076	-1,564048E-02
42	46,10229	-1,225229E-02
43	46,10231	-1,225229E-02
44	46,02066	-2,060089E-02
45	46,02066	-2,060088E-02
46	45,6653	-2,054412E-02
47	45,66529	-2,054413E-02
48	49,72291	-1,408212E-02
49	49,72291	-1,408213E-02
50	47,80749	-1,458662E-02
51	47,8075	-1,458662E-02
52	60,02004	-7,441513E-03
53	60,02003	-7,441518E-03
54	63,98378	-4,66509E-03
55	63,98377	-4,665098E-03
56	69,97984	2,742752E-03
57	69,97984	2,742756E-03
58	63,53789	1,256781E-04
59	63,53788	1,256809E-04
60	69,57366	-4,357197E-03
61	69,57367	-4,357195E-03
62	64,91042	-3,98631E-03
63	64,91045	-3,986297E-03
64	71,80715	1,35904E-03
65	71,80713	1,359042E-03
66	75,80408	-1,07895E-03
67	75,80408	-1,078948E-03
68	69,36887	2,201213E-03
69	69,36887	0,0022012
70	65,68969	8,607969E-04
71	65,6897	8,608007E-04
72	58,50694	7,445376E-03
73	58,50695	7,445399E-03
74	58,87876	0,0095357
75	58,87877	9,535677E-03
76	48,42431	1,160598E-02
77	48,42429	1,160597E-02
78	47,44289	8,462677E-03
79	47,44289	8,462673E-03
80	54,07376	1,478889E-02
81	54,07378	0,0147889

82	56,93127	0,010229
83	56,93125	1,022902E-02
84	54,10801	1,252344E-02
85	54,10801	1,252345E-02
86	50,34604	1,369147E-02
87	50,34602	1,369147E-02
88	46,84747	1,380257E-02
89	46,84748	1,380259E-02
90	48,74941	1,131446E-02
91	48,74944	1,131446E-02
92	46,2625	3,198642E-03
93	46,26249	3,198646E-03
94	41,77327	1,827861E-03
95	41,77325	1,827877E-03
96	33,14572	7,588317E-04
97	33,14573	7,588317E-04
98	41,02212	-6,183379E-04
99	41,02216	-6,183322E-04
100	36,40026	-5,390489E-04
101	36,40024	-5,390471E-04
102	38,23653	2,626797E-03
103	38,2365	2,626762E-03
104	32,75161	7,316691E-04
105	32,75161	7,316766E-04
106	33,6741	4,674019E-04
107	33,67409	4,673925E-04
108	34,03375	-4,416342E-03
109	34,03374	-4,416343E-03
110	36,47747	-4,124122E-03
111	36,47745	-4,124121E-03
112	45,98674	-3,502537E-03
113	45,98673	-3,502542E-03
114	47,63362	-4,739387E-03
115	47,63359	-4,739388E-03
116	50,22763	-1,126131E-02
117	50,22765	-1,126131E-02
118	51,11956	-7,316516E-03
119	51,11958	-7,316494E-03
120	50,87461	-9,848915E-03
121	50,87458	-9,848912E-03
122	48,02048	-7,488376E-03
123	48,02052	-7,488389E-03
124	48,08781	-1,222328E-02
125	48,08782	-1,222329E-02
126	49,8959	-1,097529E-02
127	49,89592	-1,097528E-02
128	52,94281	-9,120856E-03
129	52,9428	-9,120863E-03
130	57,16345	-8,038896E-03
131	57,16345	-8,038918E-03
132	56,13253	-5,168081E-03
133	56,13254	-5,168099E-03
134	53,13291	-4,548543E-04
135	53,13289	-4,548767E-04
136	61,08666	1,263237E-03
137	61,08669	1,263249E-03
138	61,25109	7,968689E-04
139	61,25105	7,968995E-04
140	64,18843	-5,28311E-05
141	64,18842	-5,28386E-05
142	57,96431	-1,824898E-03
143	57,96432	-1,824869E-03
144	64,28638	1,294481E-03
145	64,28642	1,294483E-03
146	64,90131	1,466378E-03
147	64,90131	1,466388E-03

148	64,33778	1,716728E-03
149	64,33774	1,716715E-03
150	60,29856	4,281178E-03
151	60,29859	4,28118E-03
152	54,7396	0,0058082
153	54,73962	5,808229E-03
154	51,36804	3,405885E-03
155	51,36809	3,405881E-03
156	49,80284	6,102433E-03
157	49,80283	6,102423E-03
158	50,01267	5,665178E-03
159	50,0126	5,665163E-03
160	48,77621	1,059755E-02
161	48,7762	1,059756E-02
162	51,62444	6,850566E-03
163	51,62442	6,850553E-03
164	51,64098	8,044538E-03
165	51,64101	8,044536E-03
166	47,99037	8,54351E-03
167	47,99033	8,543497E-03
168	48,09748	9,600817E-03
169	48,09748	9,600818E-03
170	45,58724	5,682057E-03
171	45,58724	5,682079E-03
172	43,9944	3,421939E-03
173	43,99438	3,421933E-03
174	45,19236	-2,03406E-04
175	45,19236	-2,033809E-04
176	44,29546	-2,1342E-04
177	44,29546	-2,134014E-04
178	44,59716	-5,52448E-04
179	44,5972	-5,524749E-04
180	37,23573	-1,998717E-03
181	37,23572	-1,998728E-03
182	40,56306	2,955872E-04
183	40,56309	2,95563E-04
184	39,2794	6,194013E-04
185	39,2794	6,194218E-04
186	41,10728	-2,411671E-03
187	41,10729	-2,411683E-03
188	38,55238	-3,572904E-03
189	38,55242	-3,572929E-03
190	41,63358	-3,964456E-03
191	41,63354	-3,964477E-03
192	45,31073	-3,678288E-03
193	45,31071	-3,678277E-03
194	51,44025	-3,420671E-03
195	51,4402	-3,420674E-03
196	53,04966	-6,018766E-03
197	53,04965	-6,018764E-03
198	49,57525	-3,966032E-03
199	49,57528	-3,966019E-03
200	50,98671	-7,087171E-03
201	50,98672	-7,087159E-03
202	52,03248	-7,271072E-03
203	52,03252	-7,271051E-03
204	50,77612	-8,569954E-03
205	50,7761	-8,569963E-03
206	52,29375	-6,136001E-03
207	52,29378	-6,135993E-03
208	53,29458	-6,857919E-03
209	53,2946	-6,857882E-03
210	56,28013	-4,177079E-03
211	56,28016	-4,177096E-03
212	55,17717	-4,580016E-03
213	55,17717	-4,580032E-03

214	54,98398	1,908333E-04
215	54,98396	1,908053E-04
216	56,02917	2,272135E-03
217	56,02918	2,272147E-03
218	55,22361	7,456116E-04
219	55,22362	7,456386E-04
220	59,70893	1,255017E-04
221	59,70895	1,254971E-04
222	59,68285	1,123352E-03
223	59,68279	1,123373E-03
224	61,72824	1,270502E-03
225	61,72823	1,270512E-03
226	58,36923	2,424649E-03
227	58,36924	2,424662E-03
228	59,66565	2,123376E-03
229	59,66562	2,12338E-03
230	55,30657	4,407012E-03
231	55,30657	4,407034E-03
232	55,48387	4,614775E-03
233	55,48385	4,614788E-03
234	51,89323	2,604563E-03
235	51,8933	2,604567E-03
236	47,19284	3,499876E-03
237	47,19285	3,499852E-03
238	47,74194	4,137457E-03
239	47,74191	4,137447E-03
240	50,29621	6,369114E-03
241	50,29617	6,369141E-03
242	50,56075	6,278504E-03
243	50,56072	6,278478E-03
244	48,4803	6,976668E-03
245	48,48032	6,976656E-03
246	46,03815	5,282131E-03
247	46,03813	5,282119E-03
248	47,72387	6,937493E-03
249	47,72386	6,937484E-03
250	45,75074	2,461408E-03
251	45,75069	2,461421E-03
252	46,04442	2,33847E-03
253	46,04442	2,338451E-03
254	45,43359	8,43833E-04
255	45,43361	8,438525E-04
256	45,97842	-6,050513E-04
257	45,97843	-6,050243E-04
258	46,24967	-2,208128E-03
259	46,24968	-2,208146E-03
260	43,72505	-1,55106E-03
261	43,72503	-1,551093E-03
262	41,58392	-9,428751E-04
263	41,58394	-9,429039E-04
264	39,51802	-2,787009E-04
265	39,51802	-2,786991E-04
266	44,28868	-3,544618E-03
267	44,2887	-3,544606E-03
268	42,54515	-3,431635E-03
269	42,54515	-3,431643E-03
270	46,257	-3,425547E-03
271	46,25698	-3,425582E-03
272	47,34724	-3,153065E-03
273	47,34726	-3,153051E-03
274	49,78191	-3,30055E-03
275	49,7819	-3,300557E-03
276	51,18994	-3,283209E-03
277	51,18993	-3,283206E-03
278	52,83971	-3,507913E-03
279	52,83969	-0,0035079

280	53,09684	-4,054513E-03
281	53,09687	-4,054506E-03
282	51,55849	-5,951665E-03
283	51,55854	-5,951644E-03
284	51,05407	-7,586204E-03
285	51,05409	-7,586218E-03
286	54,39508	-3,967694E-03
287	54,39507	-3,967681E-03
288	54,85381	-4,622306E-03
289	54,85377	-4,622277E-03
290	55,72282	-2,605845E-03
291	55,72288	-2,605845E-03
292	53,53822	-2,400063E-03
293	53,53823	-2,400073E-03
294	54,05119	1,364055E-04
295	54,05119	1,364009E-04
296	53,91298	8,90287E-04
297	53,91294	8,902888E-04
298	56,17987	1,420284E-03
299	56,17987	0,0014203
300	55,48477	1,049102E-03
301	55,48477	1,049108E-03
302	56,32136	2,59557E-03
303	56,32132	2,595577E-03
304	60,46055	1,309157E-03
305	60,46056	1,309172E-03
306	57,64261	2,526609E-03
307	57,64258	2,526615E-03
308	56,30064	2,948075E-03
309	56,30062	2,948033E-03
310	52,40447	4,144755E-03
311	52,40448	4,144763E-03
312	53,23112	3,394204E-03
313	53,23111	3,394226E-03
314	51,04206	2,69746E-03
315	51,04207	2,697487E-03
316	49,69438	1,437532E-03
317	49,69437	1,437501E-03
318	48,24829	4,125683E-03
319	48,2483	4,125661E-03
320	47,86609	4,328526E-03
321	47,86606	4,32853E-03
322	47,90469	4,169086E-03
323	47,90468	4,169059E-03
324	48,65675	5,792683E-03
325	48,65676	5,79267E-03
326	46,94502	4,737845E-03
327	46,94499	4,737826E-03
328	46,19408	4,323874E-03
329	46,19412	4,323869E-03
330	45,32058	1,185503E-03
331	45,32057	1,185516E-03
332	46,85408	1,037668E-03
333	46,85407	1,037651E-03
334	46,18943	5,522224E-04
335	46,18935	5,522268E-04
336	49,15185	1,497811E-07
337	49,15188	1,489619E-07
338	45,89868	-2,220372E-03
339	45,89874	-2,220378E-03
340	44,43153	-1,538169E-03
341	44,43153	-1,538187E-03
342	44,25267	-2,317641E-03
343	44,25271	-2,317662E-03
344	43,776	-1,558961E-03
345	43,77599	-1,558965E-03

346	44,39005	-3,005451E-03
347	44,39008	-3,005441E-03
348	43,96658	-3,37589E-03
349	43,96658	-3,375884E-03
350	48,44111	-3,345524E-03
351	48,4411	-3,345539E-03
352	49,5352	-2,316784E-03
353	49,53518	-2,316757E-03
354	50,77403	-3,804835E-03
355	50,77402	-3,804869E-03
356	50,15254	-1,480011E-03
357	50,15259	-1,480008E-03
358	51,74962	-2,527088E-03
359	51,74961	-2,527067E-03
360	53,01056	-3,391127E-03
361	53,01057	-3,391115E-03
362	54,24356	-4,841091E-03
363	54,24358	-4,841062E-03
364	53,24871	-5,06167E-03

x(DT) (s)	H(7 , 2 ,DT) (m)	Q(7 , 2 ,DT) (m3/s)
1	59,85358	0,02697
2	59,85359	0,02697
3	59,85358	0,02697
4	59,85359	0,02697
5	59,85358	0,02697
6	59,85358	0,02697
7	59,85359	0,02697
8	59,85359	2,697001E-02
9	59,85359	0,02697
10	59,85357	0,02697
11	59,85357	0,02697
12	59,85359	0,02697
13	30,27362	5,208341E-03
14	30,27363	5,208351E-03
15	27,6148	4,024575E-03
16	27,61481	4,02458E-03
17	25,06696	1,333352E-03
18	25,06696	1,333352E-03
19	30,92524	6,290687E-03
20	30,92525	6,290698E-03
21	25,12653	2,569542E-03
22	25,12652	2,569535E-03
23	20,29322	4,531832E-03
24	20,29323	4,531823E-03
25	18,37656	3,967623E-03
26	18,37654	3,96763E-03
27	31,21481	-1,737425E-03
28	31,2148	-1,73743E-03
29	21,79214	1,229338E-03
30	21,79213	1,229334E-03
31	33,9079	-1,102934E-02
32	33,90789	-1,102934E-02
33	43,39754	-1,541239E-02
34	43,39754	-1,541238E-02
35	54,63187	-1,846833E-02
36	54,63186	-1,846834E-02
37	48,11086	-1,343915E-02
38	48,11085	-1,343914E-02
39	42,82683	-1,440972E-02
40	42,82684	-1,440973E-02
41	41,54357	-1,588611E-02
42	41,54357	-1,588612E-02
43	52,05307	-1,646365E-02
44	52,05307	-1,646364E-02

45	46,43941	-2,043808E-02
46	46,43942	-2,043808E-02
47	43,88615	-1,876693E-02
48	43,88614	-1,876695E-02
49	49,39755	-1,362273E-02
50	49,39756	-1,362274E-02
51	49,39983	-1,552201E-02
52	49,39983	-1,552201E-02
53	60,19927	-7,511927E-03
54	60,19926	-7,511932E-03
55	61,97112	-3,160249E-03
56	61,97111	-3,160257E-03
57	68,52091	3,807718E-03
58	68,5209	3,807725E-03
59	69,61673	-4,346475E-03
60	69,61673	-4,346477E-03
61	67,00881	-2,449203E-03
62	67,00882	-2,449201E-03
63	64,74906	-3,849965E-03
64	64,74907	-3,84994E-03
65	75,4625	-1,332212E-03
66	75,46249	-1,332222E-03
67	70,35155	2,933709E-03
68	70,35156	2,933703E-03
69	68,43034	2,886305E-03
70	68,43034	2,886297E-03
71	57,58756	6,820621E-03
72	57,58756	6,820636E-03
73	57,17767	8,361802E-03
74	57,1777	8,361802E-03
75	52,01778	1,448236E-02
76	52,01776	1,448235E-02
77	49,88707	1,038039E-02
78	49,88706	1,038038E-02
79	46,34106	9,193815E-03
80	46,34106	9,193816E-03
81	58,3385	0,0114087
82	58,3385	1,140873E-02
83	53,76462	1,244258E-02
84	53,76461	1,244259E-02
85	51,15592	1,452125E-02
86	51,15591	1,452126E-02
87	48,20896	1,505571E-02
88	48,20895	1,505571E-02
89	49,24025	1,183086E-02
90	49,24027	1,183086E-02
91	52,87529	8,137062E-03
92	52,87529	8,137077E-03
93	44,9287	4,168553E-03
94	44,92867	4,168564E-03
95	38,16842	4,476206E-03
96	38,16842	4,476204E-03
97	38,02551	-2,831811E-03
98	38,02553	-2,831822E-03
99	38,65664	1,122342E-03
100	38,65665	1,122371E-03
101	35,16689	3,686482E-04
102	35,16689	3,68637E-04
103	36,76654	3,700598E-03
104	36,76649	3,700575E-03
105	33,39201	2,59947E-04
106	33,39201	2,599461E-04
107	37,17628	-2,109357E-03
108	37,17626	-2,109362E-03
109	35,0919	-5,173167E-03
110	35,09188	-5,173163E-03

111	40,86301	-7,331648E-03
112	40,863	-7,331653E-03
113	47,67692	-4,732375E-03
114	47,6769	-4,732374E-03
115	53,44099	-8,986888E-03
116	53,44099	-8,986905E-03
117	48,15767	-9,597751E-03
118	48,15767	-9,597747E-03
119	52,81308	-8,503024E-03
120	52,81309	-8,502995E-03
121	47,95991	-7,596974E-03
122	47,95992	-7,597003E-03
123	51,3884	-9,903904E-03
124	51,38842	-9,903905E-03
125	48,36978	-1,226495E-02
126	48,36977	-1,226495E-02
127	50,34396	-1,117127E-02
128	50,34397	-1,117126E-02
129	54,45811	-1,014334E-02
130	54,45811	-1,014336E-02
131	54,77469	-6,209809E-03
132	54,77469	-6,209835E-03
133	51,45175	-1,694851E-03
134	51,45175	-1,69486E-03
135	55,94707	-2,524974E-03
136	55,94706	-2,524996E-03
137	61,48392	9,692051E-04
138	61,48391	9,692498E-04
139	63,29715	-7,090978E-04
140	63,29715	-7,090922E-04
141	62,27935	1,35166E-03
142	62,27933	1,351658E-03
143	59,01289	-2,592633E-03
144	59,01293	-2,592623E-03
145	64,47475	1,154041E-03
146	64,47476	1,154061E-03
147	64,44534	1,799451E-03
148	64,44533	1,799461E-03
149	60,55783	4,494326E-03
150	60,55781	4,494298E-03
151	56,42935	7,107379E-03
152	56,42936	7,107396E-03
153	54,6353	5,847506E-03
154	54,63535	5,847508E-03
155	48,72253	5,339291E-03
156	48,72255	5,339302E-03
157	50,15144	5,804651E-03
158	50,15141	5,804662E-03
159	45,96213	8,609508E-03
160	45,96207	8,609481E-03
161	52,61813	7,646483E-03
162	52,61813	7,646486E-03
163	50,74405	7,446192E-03
164	50,74404	7,446168E-03
165	49,3575	9,65267E-03
166	49,35749	9,652687E-03
167	47,20871	9,037582E-03
168	47,20868	9,03756E-03
169	49,381	8,554278E-03
170	49,38099	8,554284E-03
171	46,28265	5,134629E-03
172	46,28266	5,134645E-03
173	47,04744	1,162859E-03
174	47,04741	1,162859E-03
175	44,75074	1,215395E-04
176	44,75074	1,215618E-04

177	44,67694	-4,940238E-04
178	44,67699	-4,940424E-04
179	41,89806	1,433592E-03
180	41,89806	1,433587E-03
181	37,34637	-2,075683E-03
182	37,34639	-2,07571E-03
183	39,70044	9,301128E-04
184	39,70042	9,301193E-04
185	42,25493	-1,570088E-03
186	42,25496	-1,570089E-03
187	40,6266	-2,051592E-03
188	40,62664	-2,05162E-03
189	40,38689	-4,908366E-03
190	40,38689	-4,908361E-03
191	43,30975	-5,180156E-03
192	43,3097	-5,180171E-03
193	48,23611	-5,815446E-03
194	48,23608	-5,815429E-03
195	54,04088	-5,320949E-03
196	54,04085	-5,320963E-03
197	49,95499	-3,70186E-03
198	49,955	-3,701866E-03
199	52,44175	-6,05743E-03
200	52,44176	-6,057411E-03
201	51,71564	-7,56771E-03
202	51,71566	-7,567702E-03
203	52,3689	-7,459911E-03
204	52,36892	-7,459884E-03
205	49,98324	-7,905154E-03
206	49,98323	-7,905173E-03
207	53,34879	-6,870408E-03
208	53,3488	-6,870382E-03
209	53,03381	-6,613893E-03
210	53,03387	-6,613886E-03
211	56,02755	-3,971903E-03
212	56,02757	-3,97191E-03
213	51,85733	-2,114374E-03
214	51,85733	-2,114384E-03
215	54,09148	8,473955E-04
216	54,09145	8,47375E-04
217	56,65752	1,804139E-03
218	56,65752	1,804156E-03
219	57,88841	-1,215473E-03
220	57,88845	-1,215465E-03
221	59,0174	6,342363E-04
222	59,01736	6,342717E-04
223	60,60443	4,439503E-04
224	60,60441	4,439503E-04
225	59,25593	3,087563E-03
226	59,25593	3,087565E-03
227	59,21533	1,795659E-03
228	59,21533	1,795679E-03
229	55,91272	4,879367E-03
230	55,91269	4,879367E-03
231	55,22447	4,445864E-03
232	55,22446	4,445892E-03
233	55,02036	4,932145E-03
234	55,02039	4,932122E-03
235	48,91214	0,0047902
236	48,91219	4,790208E-03
237	47,01497	3,617146E-03
238	47,01495	3,617145E-03
239	47,47542	4,314545E-03
240	47,47535	4,314554E-03
241	50,43024	6,225495E-03
242	50,43024	6,225491E-03

243	48,97499	7,401391E-03
244	48,97498	7,401354E-03
245	48,33694	7,028132E-03
246	48,33694	7,028134E-03
247	45,71219	5,490978E-03
248	45,71217	5,490962E-03
249	49,721	5,41482E-03
250	49,72096	5,414838E-03
251	45,9726	2,291463E-03
252	45,9726	2,291441E-03
253	46,74821	1,814634E-03
254	46,74819	1,814632E-03
255	46,69019	-8,141994E-05
256	46,69019	-8,139573E-05
257	47,20554	-1,507424E-03
258	47,20559	-1,507422E-03
259	44,54515	-9,487215E-04
260	44,54515	-9,487327E-04
261	42,24311	-4,581464E-04
262	42,24311	-4,581921E-04
263	40,10023	1,49644E-04
264	40,10022	1,496412E-04
265	44,13322	-3,673963E-03
266	44,13322	-3,673966E-03
267	43,3557	-2,844297E-03
268	43,35573	-2,844287E-03
269	44,42319	-4,800227E-03
270	44,4232	-4,80024E-03
271	46,63605	-3,691391E-03
272	46,63602	-3,691419E-03
273	48,68514	-4,126318E-03
274	48,68517	-4,126305E-03
275	50,49331	-3,811834E-03
276	50,49329	-3,811831E-03
277	52,18777	-4,005339E-03
278	52,18774	-4,005328E-03
279	53,36038	-3,87731E-03
280	53,36039	-3,877321E-03
281	53,64429	-4,439026E-03
282	53,64433	-4,439021E-03
283	52,4766	-6,587809E-03
284	52,47667	-6,587798E-03
285	50,34566	-7,00119E-03
286	50,34565	-7,001176E-03
287	55,09625	-4,466072E-03
288	55,09621	-4,46604E-03
289	53,94562	-3,930453E-03
290	53,94564	-3,930477E-03
291	54,49796	-1,697192E-03
292	54,498	-1,697179E-03
293	52,07648	-1,318289E-03
294	52,07649	-1,318295E-03
295	53,46946	5,643535E-04
296	53,46944	5,643666E-04
297	54,68554	3,210381E-04
298	54,68551	3,210325E-04
299	56,08139	1,490494E-03
300	56,0814	1,490505E-03
301	54,84946	1,515264E-03
302	54,84945	1,515288E-03
303	59,26003	4,261471E-04
304	59,26001	4,261378E-04
305	58,21627	2,958354E-03
306	58,21626	2,958378E-03
307	56,67248	3,233237E-03
308	56,6725	3,233213E-03

309	53,51393	4,988583E-03
310	53,51389	4,988559E-03
311	53,3059	3,462521E-03
312	53,30589	3,462544E-03
313	52,59024	3,852909E-03
314	52,59024	3,852924E-03
315	51,21407	2,56284E-03
316	51,21411	2,562847E-03
317	47,13451	3,318509E-03
318	47,1345	3,318474E-03
319	47,8921	4,36884E-03
320	47,89207	4,368847E-03
321	47,9661	4,234156E-03
322	47,96611	4,234139E-03
323	47,14746	4,706892E-03
324	47,14745	4,706863E-03
325	48,46628	5,895583E-03
326	48,46627	5,895581E-03
327	46,81654	4,807455E-03
328	46,81654	4,807416E-03
329	47,86907	3,070863E-03
330	47,86907	3,070882E-03
331	46,18652	5,468838E-04
332	46,18653	5,468819E-04
333	46,85005	1,039434E-03
334	46,84999	1,039455E-03
335	48,04612	-8,140616E-04
336	48,0461	-8,140989E-04
337	49,0344	8,655153E-05
338	49,03445	8,654036E-05
339	44,70652	-1,337847E-03
340	44,70656	-1,337836E-03
341	44,87626	-1,862724E-03
342	44,87628	-1,862761E-03
343	43,5051	-1,761703E-03
344	43,50511	-1,761698E-03
345	45,07269	-2,510225E-03
346	45,0727	-2,510241E-03
347	44,44383	-0,003035
348	44,44386	-3,034981E-03
349	46,21076	-5,014265E-03
350	46,21077	-5,014262E-03
351	48,30531	-0,0032332
352	48,30526	-3,233189E-03
353	51,17934	-3,520405E-03
354	51,17936	-3,520412E-03
355	48,89855	-2,408996E-03
356	48,89854	-2,409035E-03
357	51,66943	-2,593543E-03
358	51,66944	-2,593512E-03
359	52,98098	-3,425904E-03
360	52,98099	-3,425894E-03
361	54,63696	-4,574895E-03
362	54,63696	-4,574874E-03
363	53,92957	-4,584089E-03
364	53,9296	-4,58407E-03

x(DT) (s)	H(7 , 3 ,DT) (m)	Q(7 , 3 ,DT) (m3/s)
1	58,75659	0,02697
2	58,75658	0,02697
3	58,75659	0,02697
4	58,75659	0,02697
5	58,75659	0,02697
6	58,75659	0,02697
7	58,75659	0,02697

8	58,75659	0,02697
9	58,7566	2,697001E-02
10	58,7566	2,697001E-02
11	58,75658	2,696999E-02
12	58,75658	2,696999E-02
13	58,75659	0,02697
14	29,70467	5,59682E-03
15	29,70467	5,596828E-03
16	28,14786	3,614438E-03
17	28,14787	3,61444E-03
18	24,62351	1,657619E-03
19	24,6235	1,657623E-03
20	30,49256	6,565099E-03
21	30,49257	6,565104E-03
22	21,34974	5,340754E-03
23	21,34975	5,340738E-03
24	19,68433	4,956997E-03
25	19,68432	4,957007E-03
26	28,67106	-3,623397E-03
27	28,67106	-3,623399E-03
28	24,48162	3,219458E-03
29	24,48161	3,219454E-03
30	36,24703	-9,406645E-03
31	36,24702	-9,406648E-03
32	41,93617	-1,680068E-02
33	41,93616	-1,680068E-02
34	51,60935	-2,119017E-02
35	51,60935	-2,119017E-02
36	48,3473	-1,346641E-02
37	48,34728	-0,0134664
38	46,37254	-1,195989E-02
39	46,37255	-0,0119599
40	43,50769	-1,468024E-02
41	43,5077	-1,468024E-02
42	47,68656	-2,012543E-02
43	47,68656	-2,012544E-02
44	52,35423	-1,638447E-02
45	52,35423	-1,638446E-02
46	44,60355	-1,862399E-02
47	44,60356	-1,862399E-02
48	43,66133	-1,821076E-02
49	43,66133	-1,821078E-02
50	50,98993	-1,458832E-02
51	50,98992	-1,458832E-02
52	49,7182	-1,548892E-02
53	49,7182	-1,548891E-02
54	58,19713	-5,976366E-03
55	58,19712	-5,97637E-03
56	60,52114	-2,082435E-03
57	60,52113	-2,082439E-03
58	74,60011	-6,80767E-04
59	74,60011	-6,807689E-04
60	67,04202	-2,431331E-03
61	67,04202	-2,431335E-03
62	66,83952	-0,002318
63	66,83951	-2,317987E-03
64	68,43813	-6,547529E-03
65	68,43816	-6,547516E-03
66	70,00365	2,68577E-03
67	70,00365	2,685754E-03
68	69,40679	3,619207E-03
69	69,4068	3,619207E-03
70	60,26929	8,881053E-03
71	60,26928	8,881055E-03
72	56,25481	7,749498E-03
73	56,25484	7,74949E-03

74	50,25024	1,338065E-02
75	50,25026	1,338067E-02
76	53,45081	1,319538E-02
77	53,45081	1,319537E-02
78	48,74634	1,110006E-02
79	48,74633	1,110005E-02
80	50,74483	5,860224E-03
81	50,74482	5,860241E-03
82	55,11047	1,363911E-02
83	55,11048	1,363913E-02
84	50,77287	1,447181E-02
85	50,77285	1,447182E-02
86	48,96966	1,589569E-02
87	48,96965	0,0158957
88	50,61732	0,0130324
89	50,61732	1,303239E-02
90	53,40675	8,61031E-03
91	53,40675	8,610329E-03
92	51,48697	9,084974E-03
93	51,48695	9,084996E-03
94	41,29124	6,825317E-03
95	41,29123	6,825308E-03
96	43,04807	8,640653E-04
97	43,04809	8,640513E-04
98	35,66062	-1,083096E-03
99	35,66061	-1,083084E-03
100	37,41994	2,030768E-03
101	37,41998	2,030784E-03
102	33,70052	1,447289E-03
103	33,7005	1,447288E-03
104	37,39951	3,21973E-03
105	37,39948	3,219699E-03
106	36,89841	-2,319751E-03
107	36,89841	-2,319749E-03
108	38,22596	-2,876657E-03
109	38,22593	-2,876656E-03
110	39,51782	-8,399575E-03
111	39,51781	-8,399577E-03
112	42,59906	-8,549197E-03
113	42,59904	-8,549198E-03
114	53,52861	-9,012549E-03
115	53,52861	-9,012563E-03
116	51,31596	-7,333914E-03
117	51,31594	-7,333918E-03
118	49,89839	-1,077617E-02
119	49,89838	-1,077616E-02
120	49,85465	-6,246322E-03
121	49,85471	-6,246324E-03
122	51,36149	-1,003545E-02
123	51,36149	-1,003546E-02
124	51,63273	-9,974821E-03
125	51,63274	-9,974817E-03
126	48,84382	-1,244679E-02
127	48,84382	-0,0124468
128	51,90846	-1,218379E-02
129	51,90849	-1,218379E-02
130	52,07224	-8,27393E-03
131	52,07225	-8,273951E-03
132	50,07932	-2,712693E-03
133	50,07932	-2,712712E-03
134	54,27647	-3,769781E-03
135	54,27648	-3,769793E-03
136	56,35152	-2,815444E-03
137	56,35146	-2,815433E-03
138	63,53067	-5,376134E-04
139	63,53069	-5,375929E-04

140	61,3877	6,962195E-04
141	61,38769	6,962307E-04
142	63,32516	5,802382E-04
143	63,32517	5,802158E-04
144	59,20813	-2,728816E-03
145	59,20816	-2,728788E-03
146	64,01873	1,488058E-03
147	64,01874	1,488077E-03
148	60,65174	4,586762E-03
149	60,65176	4,586756E-03
150	56,66183	7,338157E-03
151	56,66179	7,338144E-03
152	56,31207	7,137617E-03
153	56,31211	7,137604E-03
154	51,95285	7,783014E-03
155	51,95288	7,783032E-03
156	49,08002	5,044656E-03
157	49,08002	5,044688E-03
158	46,06707	8,772091E-03
159	46,06705	8,77209E-03
160	49,86462	5,656252E-03
161	49,86457	5,656217E-03
162	51,72191	8,240947E-03
163	51,72193	8,24094E-03
164	48,44727	9,074387E-03
165	48,44724	9,074382E-03
166	48,55333	1,014091E-02
167	48,55334	1,014091E-02
168	48,51363	7,986943E-03
169	48,51359	7,986926E-03
170	50,05275	7,978889E-03
171	50,05274	7,97889E-03
172	49,33836	2,857324E-03
173	49,33836	2,857344E-03
174	46,60412	1,487508E-03
175	46,60409	1,487507E-03
176	45,13221	-1,591183E-04
177	45,13226	-1,591351E-04
178	41,97593	1,493353E-03
179	41,97595	1,49336E-03
180	42,00431	1,353147E-03
181	42,00434	1,353124E-03
182	36,48537	-1,437474E-03
183	36,48534	-1,437471E-03
184	42,67746	-1,261005E-03
185	42,67747	-1,261022E-03
186	41,77098	-1,211314E-03
187	41,77103	-1,211331E-03
188	42,46018	-3,395864E-03
189	42,46017	-3,39586E-03
190	42,07951	-6,12688E-03
191	42,0795	-6,126868E-03
192	46,26539	-7,324813E-03
193	46,26533	-7,32482E-03
194	50,87283	-7,717735E-03
195	50,87283	-7,717729E-03
196	50,92567	-2,997713E-03
197	50,92566	-2,997732E-03
198	52,83505	-5,805477E-03
199	52,83504	-5,805476E-03
200	53,16514	-6,548913E-03
201	53,16516	-0,0065489
202	52,05755	-7,755705E-03
203	52,05756	-7,75569E-03
204	51,5555	-6,79976E-03
205	51,55554	-6,799744E-03

206	51,06608	-8,632452E-03
207	51,06605	-8,632453E-03
208	53,08566	-6,624445E-03
209	53,08569	-6,624449E-03
210	52,79889	-6,392531E-03
211	52,79894	-6,392514E-03
212	52,6936	-1,501644E-03
213	52,6936	-1,501646E-03
214	50,96645	-1,454003E-03
215	50,96644	-1,454007E-03
216	54,72361	3,815461E-04
217	54,72357	3,815331E-04
218	59,32277	-1,60262E-04
219	59,32279	-1,602657E-04
220	57,19727	-7,05367E-04
221	57,19725	-7,053185E-04
222	59,93994	-4,491396E-05
223	59,93993	-4,489906E-05
224	58,12947	2,264533E-03
225	58,12946	2,264526E-03
226	60,10192	2,454598E-03
227	60,10191	2,454611E-03
228	55,4501	4,562119E-03
229	55,4501	4,562138E-03
230	55,82704	4,915984E-03
231	55,82701	4,91599E-03
232	54,75989	4,765719E-03
233	54,75993	4,765712E-03
234	52,00612	0,0071227
235	52,00614	7,122681E-03
236	48,72538	4,902137E-03
237	48,7254	4,90217E-03
238	46,75048	3,797212E-03
239	46,75043	3,797231E-03
240	47,62685	4,18248E-03
241	47,62683	4,18246E-03
242	48,8334	7,357278E-03
243	48,83341	7,357263E-03
244	48,82648	7,449866E-03
245	48,82645	7,449844E-03
246	47,99264	7,226625E-03
247	47,99264	7,226622E-03
248	47,73373	3,970296E-03
249	47,73368	3,970308E-03
250	49,9268	5,230885E-03
251	49,92681	5,230866E-03
252	46,67816	1,766564E-03
253	46,67814	1,766559E-03
254	48,00475	8,865576E-04
255	48,00472	8,865595E-04
256	47,91776	-9,845253E-04
257	47,9178	-9,845272E-04
258	45,49739	-2,482347E-04
259	45,49743	-2,482254E-04
260	43,06138	1,43867E-04
261	43,06141	1,438428E-04
262	40,75845	6,343368E-04
263	40,75842	6,343145E-04
264	44,72334	-3,251552E-03
265	44,72334	-3,251559E-03
266	43,19742	-2,970532E-03
267	43,19743	-2,970536E-03
268	45,2383	-4,220326E-03
269	45,23833	-4,220321E-03
270	44,81271	-5,061224E-03
271	44,81271	-5,06123E-03

272	47,98289	-4,667124E-03
273	47,98286	-4,667153E-03
274	49,40454	-4,636681E-03
275	49,40455	-4,636658E-03
276	51,49852	-4,535234E-03
277	51,49849	-4,535222E-03
278	52,71359	-4,374379E-03
279	52,7136	-4,374392E-03
280	53,90915	-4,264351E-03
281	53,90916	-4,264364E-03
282	54,55521	-5,087314E-03
283	54,55526	-5,087318E-03
284	51,75201	-6,006585E-03
285	51,75204	-6,006544E-03
286	51,07721	-7,484996E-03
287	51,07718	-7,484963E-03
288	54,18268	-3,771834E-03
289	54,18271	-3,771855E-03
290	52,72248	-3,013464E-03
291	52,72249	-3,013477E-03
292	53,03217	-6,156284E-04
293	53,0322	-6,156098E-04
294	51,49537	-8,888412E-04
295	51,49535	-8,888282E-04
296	54,24263	-4,80935E-06
297	54,24261	-4,803762E-06
298	54,58847	3,923383E-04
299	54,58845	3,923289E-04
300	55,44403	1,956929E-03
301	55,44402	1,956955E-03
302	57,79354	-6,532073E-04
303	57,79354	-6,53198E-04
304	57,01378	2,07849E-03
305	57,01374	2,07849E-03
306	57,24082	3,666272E-03
307	57,24086	3,666261E-03
308	53,87128	5,282449E-03
309	53,87128	5,282441E-03
310	54,41438	4,298517E-03
311	54,41433	4,298508E-03
312	52,66211	3,922852E-03
313	52,6621	3,92287E-03
314	52,75734	3,713505E-03
315	52,75736	3,713503E-03
316	48,64084	4,448654E-03
317	48,64088	4,448658E-03
318	46,78157	3,565945E-03
319	46,78152	3,565938E-03
320	47,99247	4,27382E-03
321	47,99248	4,273807E-03
322	47,20478	4,774357E-03
323	47,20479	4,77434E-03
324	46,96479	4,816697E-03
325	46,96476	4,816679E-03
326	48,32796	5,958781E-03
327	48,32798	5,958758E-03
328	48,49614	3,546147E-03
329	48,49611	3,546134E-03
330	48,73163	2,425823E-03
331	48,73165	2,425829E-03
332	46,18308	5,490836E-04
333	46,18304	5,49119E-04
334	48,70705	-3,279392E-04
335	48,70705	-3,279615E-04
336	47,92907	-7,272176E-04
337	47,92907	-7,272661E-04

338	47,83782	9,668525E-04
339	47,83785	9,668581E-04
340	45,15155	-1,663264E-03
341	45,15162	-1,663271E-03
342	44,12593	-1,306864E-03
343	44,12592	-1,306874E-03
344	44,80552	-2,714961E-03
345	44,80554	-2,714966E-03
346	45,12454	-2,541375E-03
347	45,12453	-2,541384E-03
348	46,69595	-4,681637E-03
349	46,69598	-4,681621E-03
350	46,08458	-4,893539E-03
351	46,08455	-4,89351E-03
352	49,96026	-4,43913E-03
353	49,96026	-4,439157E-03
354	49,29633	-2,121344E-03
355	49,29636	-2,121355E-03
356	50,42316	-3,524195E-03
357	50,42311	-3,524205E-03
358	52,90519	-3,495215E-03
359	52,90522	-3,495194E-03
360	54,61478	-4,614843E-03
361	54,61477	-4,614826E-03
362	54,31935	-4,318016E-03
363	54,31937	-4,318006E-03
364	52,67493	-3,637752E-03

x(DT) (s)	H(7 , 4 ,DT) (m)	Q(7 , 4 ,DT) (m3/s)
1	57,65959	0,02697
2	57,65959	0,02697
3	57,65959	0,02697
4	57,6596	0,02697
5	57,6596	0,02697
6	57,6596	0,02697
7	57,65959	0,02697
8	57,6596	0,02697
9	57,6596	0,02697
10	57,6596	0,02697
11	57,6596	0,02697
12	57,65958	0,02697
13	57,65958	0,02697
14	57,65959	0,02697
15	30,22974	5,175774E-03
16	30,22975	5,175779E-03
17	27,69409	3,93378E-03
18	27,69409	3,933786E-03
19	24,21779	1,95305E-03
20	24,21779	1,953051E-03
21	26,65497	9,340553E-03
22	26,65499	9,34055E-03
23	20,73129	5,764097E-03
24	20,73127	0,0057641
25	29,99602	-2,656467E-03
26	29,99603	-2,656467E-03
27	21,93423	1,347385E-03
28	21,93423	1,347385E-03
29	38,97959	-7,458044E-03
30	38,97958	-7,458047E-03
31	44,35956	-1,527676E-02
32	44,35954	-1,527676E-02
33	50,35682	-2,268249E-02
34	50,35682	-2,268249E-02
35	45,26115	-1,602167E-02
36	45,26114	-1,602165E-02

37	46,58075	-1,196557E-02
38	46,58075	-1,196558E-02
39	47,01035	-1,227042E-02
40	47,01036	-1,227043E-02
41	49,7332	-1,902117E-02
42	49,73321	-1,902117E-02
43	48,08401	-1,996844E-02
44	48,084	-1,996844E-02
45	50,36462	-1,462288E-02
46	50,36463	-1,462288E-02
47	44,35908	-1,805929E-02
48	44,35909	-0,0180593
49	45,38926	-1,911403E-02
50	45,38925	-1,911404E-02
51	51,28671	-1,457054E-02
52	51,28671	-1,457053E-02
53	47,81762	-0,0138245
54	47,81763	-1,382449E-02
55	56,75756	-4,877663E-03
56	56,75755	-4,877663E-03
57	66,64394	-6,582101E-03
58	66,64394	-6,582111E-03
59	72,01003	1,225242E-03
60	72,01003	1,225238E-03
61	66,87219	-2,29983E-03
62	66,87218	-2,299823E-03
63	70,53651	-5,031873E-03
64	70,53651	-5,031872E-03
65	62,98261	-2,486394E-03
66	62,98264	-2,48639E-03
67	69,0568	3,374355E-03
68	69,05679	3,374346E-03
69	61,18172	9,655767E-03
70	61,18172	9,655774E-03
71	58,89917	9,801521E-03
72	58,89919	9,801502E-03
73	49,25595	1,283185E-02
74	49,25595	1,283186E-02
75	51,73116	0,0120925
76	51,73119	1,209251E-02
77	52,24588	1,388865E-02
78	52,24587	1,388864E-02
79	53,16903	7,709629E-03
80	53,16899	7,709631E-03
81	47,56472	8,161697E-03
82	47,56472	8,161703E-03
83	52,04996	0,0156843
84	52,04996	1,568432E-02
85	48,55568	0,0158706
86	48,55568	0,0158706
87	51,40485	1,382381E-02
88	51,40486	0,0138238
89	54,81763	9,753835E-03
90	54,81761	9,753839E-03
91	51,99939	9,563434E-03
92	51,99938	9,563459E-03
93	47,75874	1,173621E-02
94	47,75875	1,173622E-02
95	46,17839	3,178209E-03
96	46,1784	3,178189E-03
97	40,672	2,611286E-03
98	40,67199	2,611294E-03
99	34,4249	-1,726876E-04
100	34,42491	-1,726876E-04
101	35,94638	3,110276E-03
102	35,9464	3,110301E-03

103	34,34311	9,722198E-04
104	34,34311	9,722105E-04
105	40,90567	6,28786E-04
106	40,90563	6,287591E-04
107	37,95193	-3,088841E-03
108	37,95192	-3,088833E-03
109	42,66003	-6,129573E-03
110	42,66001	-6,129578E-03
111	41,28312	-9,620004E-03
112	41,2831	-9,620001E-03
113	48,55842	-1,285234E-02
114	48,55842	-1,285235E-02
115	51,38335	-7,34418E-03
116	51,38333	-7,344182E-03
117	53,04226	-8,544262E-03
118	53,04223	-8,544259E-03
119	46,93955	-8,470542E-03
120	46,93958	-8,47056E-03
121	53,27	-8,715663E-03
122	53,27003	-8,715651E-03
123	51,60886	-1,010569E-02
124	51,60885	-0,0101057
125	52,0716	-0,0101873
126	52,07161	-1,018729E-02
127	50,45078	-1,345712E-02
128	50,45079	-1,345714E-02
129	49,52447	-1,026521E-02
130	49,5245	-1,026522E-02
131	47,3647	-4,734688E-03
132	47,3647	-4,734699E-03
133	52,91921	-4,793802E-03
134	52,9192	-4,793822E-03
135	54,68852	-4,057152E-03
136	54,68848	-4,057129E-03
137	58,41307	-4,323314E-03
138	58,41305	-4,323328E-03
139	61,62028	8,681634E-04
140	61,62029	8,681885E-04
141	62,43489	-7,472971E-05
142	62,43492	-7,473909E-05
143	63,5152	4,400581E-04
144	63,51518	4,400572E-04
145	58,75742	-2,388966E-03
146	58,75744	-2,388938E-03
147	60,21373	4,284895E-03
148	60,21376	4,284898E-03
149	56,72913	7,44924E-03
150	56,72913	7,44925E-03
151	56,54171	7,36678E-03
152	56,54172	7,366736E-03
153	53,59322	9,08132E-03
154	53,59324	9,081325E-03
155	52,28979	7,467925E-03
156	52,28979	7,467963E-03
157	44,97234	8,038397E-03
158	44,97235	8,038418E-03
159	50,00014	5,793194E-03
160	50,00013	5,793188E-03
161	48,98285	6,269461E-03
162	48,98281	6,269415E-03
163	49,39336	9,878689E-03
164	49,39334	9,878702E-03
165	47,64425	9,573799E-03
166	47,64423	9,573786E-03
167	49,85785	9,067085E-03
168	49,85785	0,0090671

169	49,19914	7,411847E-03
170	49,1991	7,411826E-03
171	53,10416	5,663366E-03
172	53,10414	5,663373E-03
173	48,88844	3,179271E-03
174	48,88844	3,17929E-03
175	46,9845	1,205208E-03
176	46,98453	1,205169E-03
177	42,42849	1,830008E-03
178	42,4285	1,830017E-03
179	42,08222	1,412679E-03
180	42,08226	1,41267E-03
181	41,13708	1,98913E-03
182	41,13706	1,989137E-03
183	39,47299	-3,633143E-03
184	39,473	-3,633161E-03
185	42,19226	-9,022874E-04
186	42,19229	-9,023192E-04
187	43,60632	-2,559929E-03
188	43,60633	-2,559913E-03
189	44,15078	-4,626823E-03
190	44,15076	-4,626813E-03
191	45,06665	-8,282833E-03
192	45,06663	-8,282813E-03
193	48,94091	-9,233633E-03
194	48,94086	-9,233653E-03
195	47,75794	-5,360057E-03
196	47,75795	-5,360056E-03
197	53,81511	-5,113469E-03
198	53,81508	-5,11348E-03
199	53,56072	-6,301954E-03
200	53,56072	-6,301958E-03
201	53,49818	-6,746343E-03
202	53,4982	-6,746324E-03
203	51,24007	-7,087556E-03
204	51,24009	-7,087551E-03
205	52,63411	-7,541981E-03
206	52,63413	-7,541947E-03
207	50,82016	-8,368852E-03
208	50,82017	-8,36888E-03
209	52,84865	-6,401393E-03
210	52,84868	-6,40139E-03
211	49,46448	-3,894098E-03
212	49,46452	-3,894074E-03
213	51,79988	-8,416413E-04
214	51,79988	-8,416403E-04
215	51,6019	-1,919152E-03
216	51,60188	-1,919149E-03
217	57,3932	-0,0015826
218	57,39318	-1,582633E-03
219	58,63042	3,491204E-04
220	58,63038	3,491568E-04
221	58,12156	-1,384806E-03
222	58,12157	-1,384778E-03
223	57,46275	1,777533E-03
224	57,46275	1,777539E-03
225	58,98065	1,632645E-03
226	58,98062	1,63265E-03
227	56,31849	5,231344E-03
228	56,31848	5,231357E-03
229	55,36642	4,600593E-03
230	55,36641	4,600618E-03
231	55,3567	5,235195E-03
232	55,35671	5,235165E-03
233	51,72734	6,971532E-03
234	51,72738	6,971528E-03

235	51,79736	7,219995E-03
236	51,79734	7,220002E-03
237	48,45131	5,077097E-03
238	48,45131	5,077153E-03
239	46,90581	3,666935E-03
240	46,9058	3,666926E-03
241	46,03779	5,332128E-03
242	46,03778	5,332096E-03
243	48,68483	7,406517E-03
244	48,68483	7,406517E-03
245	48,47534	7,646619E-03
246	48,47532	7,646594E-03
247	50,01257	5,68264E-03
248	50,01254	5,682666E-03
249	47,95079	3,793119E-03
250	47,95079	3,793093E-03
251	50,61973	4,690746E-03
252	50,61971	4,690745E-03
253	47,93665	8,372425E-04
254	47,93663	8,372397E-04
255	49,23232	-1,742422E-05
256	49,23233	-1,744754E-05
257	46,20784	2,745186E-04
258	46,20787	2,74526E-04
259	44,01241	8,443184E-04
260	44,01246	8,443126E-04
261	41,57541	1,23706E-03
262	41,5754	1,237059E-03
263	45,38737	-2,771553E-03
264	45,38734	-2,771582E-03
265	43,78225	-2,547477E-03
266	43,78226	-2,547487E-03
267	45,0882	-4,351765E-03
268	45,08821	-4,351773E-03
269	45,62561	-4,485507E-03
270	45,62563	-4,485494E-03
271	46,17675	-6,03631E-03
272	46,17675	-6,036314E-03
273	48,70967	-5,177638E-03
274	48,70962	-5,177657E-03
275	50,42046	-5,360228E-03
276	50,42046	-5,360198E-03
277	52,03037	-4,903692E-03
278	52,03038	-4,903705E-03
279	53,26811	-4,761106E-03
280	53,26812	-4,761119E-03
281	54,82344	-4,916806E-03
282	54,82346	-4,916828E-03
283	53,81326	-4,512751E-03
284	53,81326	-4,512724E-03
285	52,47847	-6,500999E-03
286	52,47847	-6,500939E-03
287	50,18311	-6,765052E-03
288	50,18314	-6,765074E-03
289	52,95403	-2,852143E-03
290	52,95404	-2,852153E-03
291	51,25731	-1,92548E-03
292	51,25732	-1,925486E-03
293	52,44976	-1,867426E-04
294	52,44978	-1,867063E-04
295	52,27038	-1,458132E-03
296	52,27037	-1,458123E-03
297	54,14563	6,655078E-05
298	54,14562	6,655267E-05
299	53,95222	8,602449E-04
300	53,95218	8,602496E-04

301	58,38987	-2,145432E-04
302	58,38988	-2,145311E-04
303	55,54667	1,000264E-03
304	55,54666	1,000284E-03
305	56,03905	2,790792E-03
306	56,03906	2,790757E-03
307	54,42279	5,724548E-03
308	54,42281	5,724555E-03
309	54,77464	0,0045869
310	54,77461	4,586908E-03
311	53,76256	4,757555E-03
312	53,76251	4,757544E-03
313	52,82961	3,782548E-03
314	52,82963	3,782546E-03
315	50,16537	5,60509E-03
316	50,16539	5,605085E-03
317	48,2796	4,692458E-03
318	48,2796	4,692488E-03
319	46,88723	3,474102E-03
320	46,88722	3,474072E-03
321	47,22718	4,816571E-03
322	47,22718	4,816558E-03
323	47,02083	4,884398E-03
324	47,02082	4,884391E-03
325	46,83467	4,886681E-03
326	46,83467	4,886644E-03
327	50,00845	4,683065E-03
328	50,00843	4,683069E-03
329	49,35949	2,897044E-03
330	49,35947	2,897017E-03
331	48,72398	2,424923E-03
332	48,72395	2,424965E-03
333	48,0414	-8,183972E-04
334	48,04142	-8,184037E-04
335	48,58955	-2,413757E-04
336	48,58957	-2,414093E-04
337	46,73248	1,536893E-04
338	46,73246	1,536549E-04
339	48,28119	6,396329E-04
340	48,28125	6,396197E-04
341	44,39953	-1,106938E-03
342	44,39956	-1,10692E-03
343	45,42786	-2,26279E-03
344	45,42786	-2,262809E-03
345	44,8583	-2,745609E-03
346	44,8583	-2,745607E-03
347	47,38298	-4,195724E-03
348	47,38298	-4,195732E-03
349	46,5665	-4,562085E-03
350	46,56649	-4,562045E-03
351	47,7597	-6,099338E-03
352	47,75972	-6,099345E-03
353	48,07483	-3,030174E-03
354	48,07484	-3,030206E-03
355	50,82448	-3,240598E-03
356	50,82447	-3,240577E-03
357	51,66862	-4,426689E-03
358	51,66859	-4,426708E-03
359	54,54672	-4,689311E-03
360	54,54673	-4,689282E-03
361	54,2957	-4,356474E-03
362	54,29572	-4,35647E-03
363	53,05743	-3,368946E-03
364	53,05745	-3,368937E-03

Trecho 8

x(DT) (s)	H(8 , 1 ,DT) (m)	Q(8 , 1 ,DT) (m3/s)
1	57,65959	0,02697
2	57,65959	0,02697
3	57,65959	0,02697
4	57,6596	0,02697
5	57,6596	0,02697
6	57,6596	0,02697
7	57,65959	0,02697
8	57,6596	0,02697
9	57,6596	0,02697
10	57,6596	0,02697
11	57,6596	0,02697
12	57,65958	2,696999E-02
13	57,65958	2,696999E-02
14	57,65959	2,697001E-02
15	30,22974	5,175775E-03
16	30,22975	5,17578E-03
17	27,69409	3,93378E-03
18	27,69409	3,933785E-03
19	24,21779	1,953052E-03
20	24,21779	1,95305E-03
21	26,65497	9,340551E-03
22	26,65499	9,340549E-03
23	20,73129	5,764098E-03
24	20,73127	5,764099E-03
25	29,99602	-2,656469E-03
26	29,99603	-2,656467E-03
27	21,93423	1,347386E-03
28	21,93423	1,347385E-03
29	38,97959	-7,458046E-03
30	38,97958	-7,458044E-03
31	44,35956	-1,527677E-02
32	44,35954	-1,527676E-02
33	50,35682	-2,268249E-02
34	50,35682	-2,268248E-02
35	45,26115	-1,602166E-02
36	45,26114	-1,602165E-02
37	46,58075	-1,196557E-02
38	46,58075	-1,196558E-02
39	47,01035	-1,227042E-02
40	47,01036	-1,227042E-02
41	49,7332	-1,902117E-02
42	49,73321	-1,902117E-02
43	48,08401	-1,996844E-02
44	48,084	-1,996843E-02
45	50,36462	-1,462289E-02
46	50,36463	-1,462288E-02
47	44,35908	-1,805929E-02
48	44,35909	-1,805929E-02
49	45,38926	-1,911403E-02
50	45,38925	-1,911404E-02
51	51,28671	-1,457053E-02
52	51,28671	-1,457054E-02
53	47,81762	-0,0138245
54	47,81763	-0,0138245
55	56,75756	-4,877665E-03
56	56,75755	-4,877662E-03
57	66,64394	-6,582098E-03
58	66,64394	-6,582112E-03
59	72,01003	1,225246E-03
60	72,01003	1,225239E-03
61	66,87219	-2,299829E-03
62	66,87218	-2,299827E-03
63	70,53651	-5,031875E-03
64	70,53651	-5,031869E-03

65	62,98261	-2,486393E-03
66	62,98264	-2,486392E-03
67	69,0568	3,374353E-03
68	69,05679	3,37435E-03
69	61,18172	9,655768E-03
70	61,18172	9,655772E-03
71	58,89917	9,801519E-03
72	58,89919	9,801505E-03
73	49,25595	1,283185E-02
74	49,25595	1,283186E-02
75	51,73116	0,0120925
76	51,73119	1,209252E-02
77	52,24588	1,388865E-02
78	52,24587	1,388864E-02
79	53,16903	7,709629E-03
80	53,16899	7,709632E-03
81	47,56472	8,161697E-03
82	47,56472	8,161701E-03
83	52,04996	0,0156843
84	52,04996	1,568432E-02
85	48,55568	0,0158706
86	48,55568	0,0158706
87	51,40485	1,382381E-02
88	51,40486	0,0138238
89	54,81763	9,753835E-03
90	54,81761	9,753838E-03
91	51,99939	9,563435E-03
92	51,99938	9,563461E-03
93	47,75874	1,173622E-02
94	47,75875	1,173622E-02
95	46,17839	3,178208E-03
96	46,1784	3,178188E-03
97	40,672	2,611288E-03
98	40,67199	2,611293E-03
99	34,4249	-1,726858E-04
100	34,42491	-1,726853E-04
101	35,94638	3,110277E-03
102	35,9464	0,0031103
103	34,34311	9,722193E-04
104	34,34311	9,722096E-04
105	40,90567	6,287864E-04
106	40,90563	6,287605E-04
107	37,95193	-3,088843E-03
108	37,95192	-3,088834E-03
109	42,66003	-6,129573E-03
110	42,66001	-6,129577E-03
111	41,28312	-9,620005E-03
112	41,2831	-9,619999E-03
113	48,55842	-1,285234E-02
114	48,55842	-1,285236E-02
115	51,38335	-7,34418E-03
116	51,38333	-7,344181E-03
117	53,04226	-8,54426E-03
118	53,04223	-8,544258E-03
119	46,93955	-8,470542E-03
120	46,93958	-8,470562E-03
121	53,27	-8,715664E-03
122	53,27003	-8,715652E-03
123	51,60886	-1,010569E-02
124	51,60885	-0,0101057
125	52,0716	-0,0101873
126	52,07161	-1,018729E-02
127	50,45078	-1,345712E-02
128	50,45079	-1,345714E-02
129	49,52447	-1,026521E-02
130	49,5245	-1,026522E-02

131	47,3647	-4,734689E-03
132	47,3647	-4,734701E-03
133	52,91921	-4,793799E-03
134	52,9192	-4,793821E-03
135	54,68852	-4,057153E-03
136	54,68848	-4,057131E-03
137	58,41307	-4,323315E-03
138	58,41305	-4,323328E-03
139	61,62028	8,681619E-04
140	61,62029	8,681859E-04
141	62,43489	-7,473194E-05
142	62,43492	-7,473984E-05
143	63,5152	4,400556E-04
144	63,51518	4,400553E-04
145	58,75742	-2,388963E-03
146	58,75744	-2,388938E-03
147	60,21373	4,284898E-03
148	60,21376	4,284901E-03
149	56,72913	7,449238E-03
150	56,72913	7,449247E-03
151	56,54171	7,36678E-03
152	56,54172	7,366735E-03
153	53,59322	9,081323E-03
154	53,59324	9,081323E-03
155	52,28979	7,467925E-03
156	52,28979	7,467961E-03
157	44,97234	8,038399E-03
158	44,97235	8,038418E-03
159	50,00014	5,793196E-03
160	50,00013	5,79319E-03
161	48,98285	6,26946E-03
162	48,98281	6,269418E-03
163	49,39336	9,878691E-03
164	49,39334	9,878702E-03
165	47,64425	0,0095738
166	47,64423	9,573787E-03
167	49,85785	9,067086E-03
168	49,85785	9,067099E-03
169	49,19914	7,411846E-03
170	49,1991	7,411828E-03
171	53,10416	5,663367E-03
172	53,10414	5,66337E-03
173	48,88844	3,179272E-03
174	48,88844	3,17929E-03
175	46,9845	1,205209E-03
176	46,98453	1,205171E-03
177	42,42849	1,830006E-03
178	42,4285	1,830014E-03
179	42,08222	1,412679E-03
180	42,08226	1,412667E-03
181	41,13708	1,989128E-03
182	41,13706	1,989138E-03
183	39,47299	-3,633143E-03
184	39,473	-3,633159E-03
185	42,19226	-9,022856E-04
186	42,19229	-9,02321E-04
187	43,60632	-2,559929E-03
188	43,60633	-2,559913E-03
189	44,15078	-4,626821E-03
190	44,15076	-4,626815E-03
191	45,06665	-8,282835E-03
192	45,06663	-8,282812E-03
193	48,94091	-9,233632E-03
194	48,94086	-9,233654E-03
195	47,75794	-5,360058E-03
196	47,75795	-5,360055E-03

197	53,81511	-5,11347E-03
198	53,81508	-5,11348E-03
199	53,56072	-6,301952E-03
200	53,56072	-6,301955E-03
201	53,49818	-6,746343E-03
202	53,4982	-6,746323E-03
203	51,24007	-7,087558E-03
204	51,24009	-7,087551E-03
205	52,63411	-7,541981E-03
206	52,63413	-7,54195E-03
207	50,82016	-8,368851E-03
208	50,82017	-8,368878E-03
209	52,84865	-6,401394E-03
210	52,84868	-6,401389E-03
211	49,46448	-3,894099E-03
212	49,46452	-3,894072E-03
213	51,79988	-8,41644E-04
214	51,79988	-8,41641E-04
215	51,6019	-1,919153E-03
216	51,60188	-1,91915E-03
217	57,3932	-1,582599E-03
218	57,39318	-1,582634E-03
219	58,63042	3,491218E-04
220	58,63038	3,491579E-04
221	58,12156	-1,384804E-03
222	58,12157	-1,384779E-03
223	57,46275	1,777534E-03
224	57,46275	1,777541E-03
225	58,98065	1,632647E-03
226	58,98062	1,632652E-03
227	56,31849	5,231343E-03
228	56,31848	5,23136E-03
229	55,36642	4,600593E-03
230	55,36641	4,60062E-03
231	55,3567	5,235196E-03
232	55,35671	5,235167E-03
233	51,72734	6,971531E-03
234	51,72738	6,971527E-03
235	51,79736	7,219997E-03
236	51,79734	0,00722
237	48,45131	5,077095E-03
238	48,45131	5,077155E-03
239	46,90581	3,666933E-03
240	46,9058	3,666927E-03
241	46,03779	5,332126E-03
242	46,03778	5,332098E-03
243	48,68483	7,406516E-03
244	48,68483	7,40652E-03
245	48,47534	7,646617E-03
246	48,47532	7,646594E-03
247	50,01257	5,68264E-03
248	50,01254	5,682669E-03
249	47,95079	3,79312E-03
250	47,95079	3,793094E-03
251	50,61973	4,690748E-03
252	50,61971	4,690744E-03
253	47,93665	8,372428E-04
254	47,93663	8,372401E-04
255	49,23232	-1,742544E-05
256	49,23233	-1,744615E-05
257	46,20784	2,745186E-04
258	46,20787	2,745242E-04
259	44,01241	8,443177E-04
260	44,01246	8,443155E-04
261	41,57541	1,237062E-03
262	41,5754	1,237059E-03

263	45,38737	-2,771556E-03
264	45,38734	-2,771585E-03
265	43,78225	-2,547476E-03
266	43,78226	-2,547487E-03
267	45,0882	-4,351763E-03
268	45,08821	-4,351772E-03
269	45,62561	-4,485505E-03
270	45,62563	-4,485494E-03
271	46,17675	-6,036309E-03
272	46,17675	-6,036311E-03
273	48,70967	-5,177639E-03
274	48,70962	-5,177657E-03
275	50,42046	-5,360225E-03
276	50,42046	-5,360199E-03
277	52,03037	-4,903693E-03
278	52,03038	-4,903706E-03
279	53,26811	-4,761104E-03
280	53,26812	-4,761121E-03
281	54,82344	-4,916804E-03
282	54,82346	-4,916827E-03
283	53,81326	-4,51275E-03
284	53,81326	-4,512724E-03
285	52,47847	-0,006501
286	52,47847	-6,500941E-03
287	50,18311	-6,765055E-03
288	50,18314	-6,765072E-03
289	52,95403	-2,852145E-03
290	52,95404	-2,852153E-03
291	51,25731	-1,925477E-03
292	51,25732	-1,925489E-03
293	52,44976	-1,867401E-04
294	52,44978	-1,86705E-04
295	52,27038	-1,458134E-03
296	52,27037	-1,458121E-03
297	54,14563	6,655255E-05
298	54,14562	6,655021E-05
299	53,95222	8,602436E-04
300	53,95218	8,602512E-04
301	58,38987	-2,145445E-04
302	58,38988	-2,14534E-04
303	55,54667	1,000263E-03
304	55,54666	1,000284E-03
305	56,03905	2,79079E-03
306	56,03906	2,790759E-03
307	54,42279	5,724548E-03
308	54,42281	5,724558E-03
309	54,77464	0,0045869
310	54,77461	4,586909E-03
311	53,76256	4,757553E-03
312	53,76251	4,757544E-03
313	52,82961	3,782548E-03
314	52,82963	3,782548E-03
315	50,16537	5,605088E-03
316	50,16539	5,605083E-03
317	48,2796	4,692455E-03
318	48,2796	4,692488E-03
319	46,88723	3,474103E-03
320	46,88722	3,474072E-03
321	47,22718	4,816568E-03
322	47,22718	4,81656E-03
323	47,02083	4,884399E-03
324	47,02082	4,88439E-03
325	46,83467	4,886682E-03
326	46,83467	4,886644E-03
327	50,00845	4,683064E-03
328	50,00843	4,683067E-03

329	49,35949	2,897046E-03
330	49,35947	2,897019E-03
331	48,72398	2,424925E-03
332	48,72395	2,424963E-03
333	48,0414	-8,183985E-04
334	48,04142	-8,184019E-04
335	48,58955	-2,413765E-04
336	48,58957	-2,414091E-04
337	46,73248	1,536867E-04
338	46,73246	1,536529E-04
339	48,28119	6,3963E-04
340	48,28125	6,396203E-04
341	44,39953	-1,10694E-03
342	44,39956	-1,106922E-03
343	45,42786	-2,262792E-03
344	45,42786	-2,262807E-03
345	44,8583	-2,745607E-03
346	44,8583	-2,745609E-03
347	47,38298	-4,195724E-03
348	47,38298	-4,195733E-03
349	46,5665	-4,562085E-03
350	46,56649	-4,562047E-03
351	47,7597	-6,099338E-03
352	47,75972	-6,099345E-03
353	48,07483	-3,030172E-03
354	48,07484	-3,030204E-03
355	50,82448	-3,240601E-03
356	50,82447	-3,240577E-03
357	51,66862	-4,426691E-03
358	51,66859	-4,426711E-03
359	54,54672	-4,689311E-03
360	54,54673	-4,689283E-03
361	54,2957	-4,356475E-03
362	54,29572	-4,35647E-03
363	53,05743	-3,368948E-03
364	53,05745	-3,368934E-03

x(DT) (s)	H(8 , 2 ,DT) (m)	Q(8 , 2 ,DT) (m3/s)
1	56,64386	0,02697
2	56,64386	0,02697
3	56,64386	0,02697
4	56,64386	0,02697
5	56,64386	0,02697
6	56,64386	0,02697
7	56,64386	0,02697
8	56,64386	0,02697
9	56,64386	0,02697
10	56,64386	0,02697
11	56,64386	0,02697
12	56,64386	0,02697
13	56,64384	0,02697
14	56,64384	0,02697
15	56,64386	0,02697
16	29,70317	5,564437E-03
17	29,70317	5,564447E-03
18	27,17852	4,326249E-03
19	27,17853	4,32625E-03
20	20,76948	4,688658E-03
21	20,76949	4,688649E-03
22	25,81425	9,911739E-03
23	25,81425	9,911756E-03
24	30,64267	-2,147797E-03
25	30,64266	-2,147806E-03
26	23,4459	2,555724E-03
27	23,4459	2,555725E-03

28	36,06501	-9,882161E-03
29	36,06501	-9,88216E-03
30	46,75735	-1,357611E-02
31	46,75734	-0,0135761
32	52,50391	-2,148888E-02
33	52,5039	-2,148888E-02
34	44,18333	-1,720653E-02
35	44,18332	-1,720652E-02
36	43,69435	-1,449196E-02
37	43,69436	-1,449197E-02
38	47,19287	-1,229307E-02
39	47,19287	-1,229308E-02
40	52,92217	-1,680057E-02
41	52,92218	-1,680057E-02
42	50,00505	-1,883573E-02
43	50,00505	-1,883572E-02
44	46,36916	-0,0181635
45	46,36916	-1,816351E-02
46	49,80942	-0,0139445
47	49,80944	-0,0139445
48	46,01809	-0,0190156
49	46,0181	-1,901559E-02
50	45,99092	-1,918672E-02
51	45,99091	-1,918673E-02
52	49,34518	-1,279235E-02
53	49,34518	-1,279235E-02
54	46,90685	-1,288881E-02
55	46,90685	-1,288879E-02
56	62,85559	-9,696426E-03
57	62,85559	-9,696433E-03
58	64,46022	-4,798967E-03
59	64,46021	-4,79898E-03
60	71,65678	1,50425E-03
61	71,65677	1,504255E-03
62	70,44569	-5,133266E-03
63	70,44569	-5,133273E-03
64	65,17577	-7,444415E-04
65	65,1758	-7,44449E-04
66	62,33861	-1,967845E-03
67	62,33862	-1,967829E-03
68	61,09292	9,689376E-03
69	61,09291	9,689374E-03
70	59,80449	0,0106466
71	59,80451	1,064659E-02
72	51,94172	1,522293E-02
73	51,94171	1,522294E-02
74	50,75215	1,146036E-02
75	50,75217	1,146036E-02
76	50,6418	0,0127958
77	50,64182	1,279582E-02
78	56,38588	1,038522E-02
79	56,38585	1,038523E-02
80	49,96844	1,018669E-02
81	49,96842	1,018668E-02
82	44,95483	1,016146E-02
83	44,95481	1,016148E-02
84	49,80743	1,719315E-02
85	49,80744	1,719316E-02
86	50,96177	1,367939E-02
87	50,96178	1,367938E-02
88	55,46368	1,038686E-02
89	55,46367	1,038686E-02
90	53,38061	1,079005E-02
91	53,38058	1,079006E-02
92	48,34108	1,236865E-02
93	48,34109	1,236865E-02

94	52,21269	8,044532E-03
95	52,21272	8,04452E-03
96	43,7568	5,091056E-03
97	43,75679	5,091058E-03
98	39,28604	3,704933E-03
99	39,28604	3,704928E-03
100	33,1192	8,647852E-04
101	33,1192	8,647926E-04
102	36,47845	2,676791E-03
103	36,47848	2,676806E-03
104	37,84214	-1,808956E-03
105	37,84212	-1,808963E-03
106	41,768	-5,681068E-05
107	41,76795	-5,683117E-05
108	42,25562	-6,497734E-03
109	42,25562	-6,497731E-03
110	44,23189	-7,336799E-03
111	44,23186	-7,336798E-03
112	47,15999	-1,418676E-02
113	47,16	-1,418677E-02
114	46,70754	-1,119846E-02
115	46,70752	-1,119846E-02
116	53,05748	-8,614507E-03
117	53,05745	-8,614501E-03
118	50,02115	-6,062854E-03
119	50,02117	-6,062888E-03
120	50,39573	-1,113702E-02
121	50,39574	-1,113702E-02
122	53,42067	-8,751098E-03
123	53,4207	-8,751081E-03
124	52,03744	-1,033291E-02
125	52,03743	-1,033292E-02
126	53,47875	-0,0111902
127	53,47878	-0,0111902
128	48,19722	-1,146564E-02
129	48,19723	-1,146565E-02
130	45,06833	-6,607697E-03
131	45,06835	-6,607692E-03
132	50,22887	-6,985532E-03
133	50,22888	-6,985547E-03
134	53,37472	-5,130228E-03
135	53,37467	-5,130213E-03
136	56,7523	-5,678652E-03
137	56,75229	-5,678656E-03
138	56,76904	-2,996322E-03
139	56,76901	-2,996331E-03
140	62,62041	7,267669E-05
141	62,62045	7,268041E-05
142	62,65114	-2,465434E-04
143	62,65114	-2,465304E-04
144	62,91586	9,160377E-04
145	62,91585	9,16034E-04
146	55,28966	3,726576E-04
147	55,2897	3,726687E-04
148	56,43041	7,270543E-03
149	56,43042	7,270562E-03
150	56,60947	7,482743E-03
151	56,60951	7,482721E-03
152	53,88874	9,41447E-03
153	53,88873	9,41444E-03
154	53,84528	8,789549E-03
155	53,84526	8,789573E-03
156	48,1533	1,069267E-02
157	48,15332	0,0106927
158	48,83728	4,89584E-03
159	48,83729	4,895857E-03

160	49,1394	6,439861E-03
161	49,1394	6,439844E-03
162	46,84556	7,92402E-03
163	46,8455	7,923995E-03
164	48,56662	0,0104273
165	48,56661	0,0104273
166	48,95631	8,429614E-03
167	48,95628	8,429606E-03
168	50,46233	8,495584E-03
169	50,46233	8,495601E-03
170	52,19635	4,969474E-03
171	52,19631	4,969457E-03
172	52,51115	6,09895E-03
173	52,51114	6,098952E-03
174	49,16561	2,947833E-03
175	49,16566	2,947815E-03
176	44,30455	3,332943E-03
177	44,30454	3,33293E-03
178	42,51348	1,758764E-03
179	42,51352	1,758751E-03
180	41,24249	2,077672E-03
181	41,24249	2,077694E-03
182	43,84034	-1,631211E-04
183	43,84035	-1,631323E-04
184	39,13116	-3,346897E-03
185	39,13119	-3,346931E-03
186	43,94668	-2,295345E-03
187	43,94667	-2,295347E-03
188	45,19396	-3,814107E-03
189	45,19397	-3,814086E-03
190	46,95695	-6,832701E-03
191	46,95693	-6,832684E-03
192	47,72435	-1,031838E-02
193	47,72434	-1,031837E-02
194	46,00368	-6,805278E-03
195	46,00365	-6,805306E-03
196	50,69238	-7,659718E-03
197	50,69237	-7,659711E-03
198	54,47604	-5,609602E-03
199	54,47603	-5,60962E-03
200	53,86634	-6,500714E-03
201	53,86633	-6,500712E-03
202	52,64089	-6,014686E-03
203	52,64091	-6,014673E-03
204	52,30143	-7,87512E-03
205	52,30143	-0,0078751
206	52,32372	-7,232247E-03
207	52,32376	-7,232241E-03
208	50,69203	-8,189334E-03
209	50,69203	-8,189352E-03
210	49,61737	-3,78854E-03
211	49,6174	-3,788527E-03
212	48,72945	-3,293265E-03
213	48,72949	-3,293237E-03
214	52,38063	-1,302294E-03
215	52,38063	-1,302283E-03
216	54,29983	-4,058696E-03
217	54,29984	-4,058711E-03
218	56,7988	-1,10754E-03
219	56,79873	-1,107533E-03
220	59,46712	-3,158096E-04
221	59,46711	-3,157947E-04
222	55,80331	4,592743E-04
223	55,80333	4,592873E-04
224	58,30982	1,100989E-03
225	58,30981	1,10101E-03

226	55,36894	4,49935E-03
227	55,36892	4,499353E-03
228	56,2007	5,294567E-03
229	56,20068	5,294589E-03
230	54,9305	4,923463E-03
231	54,93054	4,92345E-03
232	52,3903	7,561721E-03
233	52,39031	7,561695E-03
234	51,53717	7,068707E-03
235	51,53718	7,068729E-03
236	51,39738	7,479956E-03
237	51,39734	7,479982E-03
238	48,53061	4,985487E-03
239	48,53065	4,985515E-03
240	45,3981	4,849959E-03
241	45,3981	4,849941E-03
242	46,01632	5,317642E-03
243	46,0163	5,317626E-03
244	48,35024	7,611498E-03
245	48,35024	7,611499E-03
246	50,41356	6,041743E-03
247	50,41349	6,04175E-03
248	50,12664	5,556179E-03
249	50,12666	5,556168E-03
250	48,70329	3,179263E-03
251	48,70327	3,179258E-03
252	51,67759	3,825821E-03
253	51,67756	3,825821E-03
254	49,12184	-1,052152E-04
255	49,12184	-1,052432E-04
256	47,53513	1,331069E-03
257	47,53513	1,331054E-03
258	44,75007	0,0014327
259	44,75012	1,432693E-03
260	42,54343	2,01069E-03
261	42,54346	2,010711E-03
262	46,00655	-2,28538E-03
263	46,00655	-2,285386E-03
264	44,45201	-2,019851E-03
265	44,45199	-2,019882E-03
266	45,5862	-3,973596E-03
267	45,58621	-3,973609E-03
268	45,46928	-4,633537E-03
269	45,46928	-4,63354E-03
270	46,91214	-5,485391E-03
271	46,91216	-5,485376E-03
272	46,95887	-6,61731E-03
273	46,95885	-6,617304E-03
274	49,72343	-5,953375E-03
275	49,72338	-5,953386E-03
276	50,98146	-5,77409E-03
277	50,98149	-5,774086E-03
278	52,59611	-5,326517E-03
279	52,59612	-5,326532E-03
280	54,1804	-5,46081E-03
281	54,18042	-5,460834E-03
282	54,09393	-4,310355E-03
283	54,09391	-4,310349E-03
284	54,42858	-4,979055E-03
285	54,42856	-4,979013E-03
286	51,54927	-5,715827E-03
287	51,54934	-5,715817E-03
288	49,16249	-5,903352E-03
289	49,16251	-5,90336E-03
290	51,53025	-1,711866E-03
291	51,53027	-1,711871E-03

292	50,76359	-1,529075E-03
293	50,76357	-1,52907E-03
294	53,16057	-7,514656E-04
295	53,16058	-7,51432E-04
296	52,25146	-1,440747E-03
297	52,25146	-1,440743E-03
298	53,54926	5,403925E-04
299	53,54923	5,404092E-04
300	56,84834	-1,441669E-03
301	56,84832	-1,441678E-03
302	56,20221	0,0015237
303	56,20221	1,52372E-03
304	54,66338	1,700964E-03
305	54,66341	1,700951E-03
306	53,36247	4,908811E-03
307	53,36246	0,0049088
308	55,27421	0,0050117
309	55,2742	5,011726E-03
310	54,12852	5,076926E-03
311	54,12849	5,076934E-03
312	53,87881	4,640073E-03
313	53,87879	4,640041E-03
314	50,3174	5,762734E-03
315	50,31743	5,76273E-03
316	49,75056	5,899817E-03
317	49,75055	5,899839E-03
318	48,31973	4,636133E-03
319	48,31977	4,636144E-03
320	46,19273	4,012523E-03
321	46,19272	4,012493E-03
322	47,04813	4,933089E-03
323	47,04813	4,933087E-03
324	46,89248	4,959909E-03
325	46,89249	4,959881E-03
326	48,52438	3,517635E-03
327	48,52435	3,517624E-03
328	50,78116	4,044779E-03
329	50,78116	4,044769E-03
330	49,32705	2,913507E-03
331	49,32698	2,913516E-03
332	50,41878	1,071809E-03
333	50,4188	1,071809E-03
334	47,95322	-7,475931E-04
335	47,95325	-7,47608E-04
336	47,41211	6,942172E-04
337	47,41211	6,942004E-04
338	47,20105	-2,186429E-04
339	47,20105	-2,18695E-04
340	47,43798	1,309145E-03
341	47,438	1,309162E-03
342	45,64499	-2,09515E-03
343	45,64502	-2,095139E-03
344	45,45411	-2,277963E-03
345	45,45411	-2,277974E-03
346	47,05247	-4,480608E-03
347	47,05247	-4,480608E-03
348	47,22906	-4,053891E-03
349	47,22902	-4,053874E-03
350	48,1686	-5,811928E-03
351	48,16863	-5,811926E-03
352	46,02714	-4,681466E-03
353	46,02717	-4,681479E-03
354	49,60099	-4,232593E-03
355	49,60096	-4,232589E-03
356	52,01244	-4,172834E-03
357	52,01244	-4,172821E-03

358	53,30937	-5,708596E-03
359	53,30933	-5,708611E-03
360	54,24076	-4,421819E-03
361	54,24079	-4,421802E-03
362	53,07629	-3,366539E-03
363	53,0763	-3,366532E-03
364	53,68606	-3,85583E-03

x(DT) (s)	H(8 , 3 ,DT) (m)	Q(8 , 3 ,DT) (m3/s)
1	55,62812	0,02697
2	55,62812	0,02697
3	55,62812	0,02697
4	55,62812	0,02697
5	55,62812	0,02697
6	55,62812	0,02697
7	55,62812	0,02697
8	55,62812	0,02697
9	55,62812	0,02697
10	55,62812	0,02697
11	55,62812	0,02697
12	55,62812	2,697001E-02
13	55,62812	2,697001E-02
14	55,62811	0,02697
15	55,62811	0,02697
16	55,62811	2,697001E-02
17	29,17368	5,950782E-03
18	29,17369	5,950787E-03
19	23,69796	7,070942E-03
20	23,69798	7,070936E-03
21	19,97006	5,299436E-03
22	19,97005	5,299445E-03
23	35,74628	1,911299E-03
24	35,74629	1,911307E-03
25	24,08104	3,07083E-03
26	24,08103	3,070821E-03
27	37,63107	-8,722269E-03
28	37,63107	-8,722264E-03
29	43,98416	-1,606592E-02
30	43,98415	-1,606591E-02
31	55,01619	-1,993362E-02
32	55,01619	-1,993363E-02
33	46,1483	-1,592671E-02
34	46,14828	-1,592671E-02
35	42,60779	-0,0156262
36	42,60779	-1,562621E-02
37	44,35917	-1,478718E-02
38	44,35919	-1,478718E-02
39	53,19893	-1,689748E-02
40	53,19892	-1,689748E-02
41	53,13512	-1,665659E-02
42	53,13511	-1,665658E-02
43	48,21403	-1,701904E-02
44	48,21404	-1,701904E-02
45	45,87619	-1,740577E-02
46	45,8762	-1,740578E-02
47	51,39762	-1,499065E-02
48	51,39763	-1,499065E-02
49	46,61917	-1,909198E-02
50	46,61917	-1,909197E-02
51	44,10974	-1,728358E-02
52	44,10973	-1,728359E-02
53	48,39917	-1,185913E-02
54	48,39916	-1,185913E-02
55	53,20728	-1,771045E-02
56	53,20729	-1,771045E-02

57	60,68484	-7,867347E-03
58	60,68484	-7,867355E-03
59	64,12219	-4,504835E-03
60	64,12217	-4,504833E-03
61	75,22784	-1,335621E-03
62	75,22784	-1,335625E-03
63	65,06776	-8,310247E-04
64	65,06777	-8,310471E-04
65	64,52749	-2,287384E-04
66	64,5275	-2,287291E-04
67	54,36935	4,368378E-03
68	54,36937	4,368395E-03
69	59,70097	1,069117E-02
70	59,70098	1,069115E-02
71	52,73222	1,614006E-02
72	52,73222	1,614007E-02
73	53,42009	1,379118E-02
74	53,42009	1,379118E-02
75	49,66128	1,218138E-02
76	49,66129	1,218138E-02
77	54,85654	9,265341E-03
78	54,85654	9,265376E-03
79	53,11118	1,286744E-02
80	53,11116	1,286744E-02
81	47,30129	1,219073E-02
82	47,30126	1,219072E-02
83	42,78735	1,176906E-02
84	42,78734	1,176906E-02
85	52,23359	1,493747E-02
86	52,23362	1,493747E-02
87	55,08141	1,019853E-02
88	55,0814	1,019854E-02
89	54,00189	1,142861E-02
90	54,00187	1,142862E-02
91	49,65664	1,361973E-02
92	49,65664	1,361972E-02
93	52,83926	8,624904E-03
94	52,83929	0,0086249
95	49,72909	9,946059E-03
96	49,72908	9,946072E-03
97	42,34892	6,180919E-03
98	42,34892	6,180913E-03
99	37,96463	4,73962E-03
100	37,96462	4,739623E-03
101	33,65789	4,359409E-04
102	33,6579	4,3594E-04
103	39,97814	-1,118183E-04
104	39,97816	-1,117978E-04
105	38,70908	-2,494154E-03
106	38,70906	-2,494154E-03
107	46,07347	-0,0034777
108	46,07343	-3,477726E-03
109	43,84278	-7,711954E-03
110	43,84277	-7,711942E-03
111	50,14426	-1,197472E-02
112	50,14426	-1,197474E-02
113	45,30266	-1,248772E-02
114	45,30265	-1,248772E-02
115	48,45216	-1,244549E-02
116	48,45213	-1,244549E-02
117	50,01148	-6,111987E-03
118	50,0115	-6,112019E-03
119	53,48095	-8,771028E-03
120	53,48095	-8,771049E-03
121	50,5801	-1,114589E-02
122	50,5801	-1,114589E-02

123	53,83443	-8,994883E-03
124	53,83446	-8,994864E-03
125	53,46202	-1,134633E-02
126	53,46202	-1,134636E-02
127	51,15794	-9,207271E-03
128	51,15796	-9,207278E-03
129	43,70948	-7,754073E-03
130	43,70948	-7,754085E-03
131	47,97174	-8,866144E-03
132	47,97177	-8,86614E-03
133	50,70565	-7,310212E-03
134	50,70561	-7,310191E-03
135	55,45889	-6,756984E-03
136	55,45887	-6,756997E-03
137	55,10835	-4,336683E-03
138	55,10833	-4,336683E-03
139	57,77973	-3,789393E-03
140	57,77972	-3,789423E-03
141	62,83666	-9,915046E-05
142	62,83667	-9,912439E-05
143	62,05191	2,296455E-04
144	62,05191	2,296511E-04
145	59,43466	3,681079E-03
146	59,43466	3,681062E-03
147	51,51121	3,374651E-03
148	51,51122	3,374677E-03
149	56,31223	7,305792E-03
150	56,31228	7,305779E-03
151	53,93073	9,548999E-03
152	53,93074	9,548994E-03
153	54,14036	9,11621E-03
154	54,14031	9,116208E-03
155	49,64651	1,203993E-02
156	49,64651	1,203995E-02
157	52,02418	7,490223E-03
158	52,0242	7,490246E-03
159	47,97844	5,551625E-03
160	47,97847	5,551632E-03
161	46,98367	8,10667E-03
162	46,98365	8,106673E-03
163	46,03654	8,497153E-03
164	46,0365	8,49712E-03
165	49,88279	9,260902E-03
166	49,88278	9,260909E-03
167	49,57507	7,859146E-03
168	49,57504	7,859141E-03
169	53,47256	6,023739E-03
170	53,47256	6,023755E-03
171	51,60529	5,411699E-03
172	51,60525	5,411681E-03
173	52,77148	5,850838E-03
174	52,77151	5,850803E-03
175	46,46864	5,081054E-03
176	46,46865	5,081061E-03
177	44,38446	3,257116E-03
178	44,38448	3,257085E-03
179	41,67103	2,424693E-03
180	41,67103	2,424715E-03
181	43,94852	-7,717498E-05
182	43,94854	-7,717498E-05
183	43,48928	1,158398E-04
184	43,48932	1,1581E-04
185	40,9007	-4,740447E-03
186	40,90069	-4,740448E-03
187	45,53856	-3,554322E-03
188	45,53855	-3,55432E-03

189	48,01063	-6,035935E-03
190	48,01062	-6,035903E-03
191	49,62204	-8,898429E-03
192	49,62203	-8,898426E-03
193	44,77065	-7,853405E-03
194	44,77066	-7,853402E-03
195	48,97607	-9,115593E-03
196	48,97603	-9,115615E-03
197	51,38134	-8,142034E-03
198	51,38135	-8,142037E-03
199	54,77753	-5,814238E-03
200	54,77751	-5,814247E-03
201	53,00048	-5,765859E-03
202	53,00048	-5,765868E-03
203	53,69961	-6,815748E-03
204	53,69962	-6,815722E-03
205	51,99123	-7,559838E-03
206	51,99126	-7,559843E-03
207	52,18149	-7,061211E-03
208	52,18153	-7,061196E-03
209	47,45359	-5,541839E-03
210	47,45358	-5,54185E-03
211	48,87885	-3,185824E-03
212	48,87887	-3,185809E-03
213	49,31953	-3,750078E-03
214	49,31956	-3,750041E-03
215	55,0843	-3,448596E-03
216	55,08432	-3,448602E-03
217	53,7126	-3,573835E-03
218	53,71255	-3,573807E-03
219	57,63778	-1,772787E-03
220	57,63774	-1,772799E-03
221	57,1459	1,528613E-03
222	57,1459	1,528615E-03
223	56,65263	-2,157781E-04
224	56,65263	-2,157502E-04
225	54,68893	3,976597E-03
226	54,68893	3,976619E-03
227	55,2557	4,566865E-03
228	55,25567	4,566874E-03
229	55,75754	5,61557E-03
230	55,75758	5,615553E-03
231	51,94636	7,267598E-03
232	51,9464	7,267589E-03
233	52,19315	7,654924E-03
234	52,19313	7,654924E-03
235	51,13606	7,331967E-03
236	51,13604	7,332014E-03
237	51,45675	7,37071E-03
238	51,45674	7,370705E-03
239	47,00571	6,169509E-03
240	47,00576	6,169527E-03
241	45,38013	4,838135E-03
242	45,38012	4,838128E-03
243	45,69861	5,538699E-03
244	45,69859	5,538682E-03
245	50,30419	5,994719E-03
246	50,30416	5,994748E-03
247	50,52577	5,912088E-03
248	50,52576	5,912052E-03
249	50,87222	4,929533E-03
250	50,87221	4,929543E-03
251	49,77275	2,31831E-03
252	49,77273	2,31831E-03
253	52,8575	2,872089E-03
254	52,85751	2,872063E-03

255	47,42356	1,244148E-03
256	47,42356	1,244126E-03
257	46,07307	2,490768E-03
258	46,07309	2,490738E-03
259	43,27687	2,600944E-03
260	43,27689	2,600959E-03
261	46,97726	-1,516664E-03
262	46,97729	-1,516646E-03
263	45,06747	-1,533447E-03
264	45,06748	-1,533454E-03
265	46,25975	-3,451655E-03
266	46,25973	-3,451688E-03
267	45,96672	-4,258415E-03
268	45,96672	-4,258422E-03
269	46,76397	-0,0056384
270	46,76397	-5,638398E-03
271	47,69458	-6,073685E-03
272	47,69459	-6,073661E-03
273	47,99204	-7,389626E-03
274	47,99202	-7,389614E-03
275	50,29267	-6,366337E-03
276	50,29265	-6,366372E-03
277	51,55721	-6,194549E-03
278	51,55724	-6,194549E-03
279	53,51794	-6,027475E-03
280	53,51796	-6,027497E-03
281	53,45042	-4,84772E-03
282	53,45041	-4,847718E-03
283	54,71099	-4,780021E-03
284	54,71095	-4,779996E-03
285	53,48219	-4,199605E-03
286	53,48223	-4,199613E-03
287	50,51317	-4,856348E-03
288	50,51323	-4,856328E-03
289	47,74873	-4,741391E-03
290	47,74875	-4,741397E-03
291	51,03514	-1,315231E-03
292	51,03513	-1,315216E-03
293	51,47743	-2,093658E-03
294	51,47741	-2,093654E-03
295	53,14055	-7,349309E-04
296	53,14057	-7,349085E-04
297	51,65575	-9,651203E-04
298	51,65572	-9,650961E-04
299	56,44806	-1,763158E-03
300	56,44805	-1,763158E-03
301	54,66058	2,989043E-04
302	54,66055	2,989061E-04
303	55,31617	2,225125E-03
304	55,3162	2,225114E-03
305	51,982	3,828228E-03
306	51,98201	3,828233E-03
307	54,22447	4,19718E-03
308	54,22443	4,197184E-03
309	54,62165	5,502326E-03
310	54,62164	5,502351E-03
311	54,24342	4,957035E-03
312	54,24342	4,95702E-03
313	51,34591	6,628681E-03
314	51,3459	6,628647E-03
315	49,8989	6,058406E-03
316	49,8989	6,058432E-03
317	49,78229	5,835986E-03
318	49,78231	5,835986E-03
319	47,61498	5,172243E-03
320	47,61501	5,172253E-03

321	46,01796	4,133528E-03
322	46,01793	4,133508E-03
323	46,91892	5,008752E-03
324	46,91894	5,008731E-03
325	48,5899	3,583942E-03
326	48,58988	3,583942E-03
327	49,30661	2,882397E-03
328	49,30658	2,882373E-03
329	50,74309	4,056875E-03
330	50,74305	4,056901E-03
331	51,02426	1,555579E-03
332	51,02425	1,555549E-03
333	50,32922	1,141692E-03
334	50,32926	1,14168E-03
335	46,77571	1,886096E-04
336	46,77573	1,886077E-04
337	47,88062	3,214236E-04
338	47,88065	3,213882E-04
339	46,35798	4,51263E-04
340	46,35795	4,512407E-04
341	48,68251	3,184099E-04
342	48,68254	3,184192E-04
343	45,67076	-2,110763E-03
344	45,6708	-2,110748E-03
345	47,6543	-4,020356E-03
346	47,6543	-4,020365E-03
347	46,89938	-0,0043367
348	46,89935	-4,336676E-03
349	48,83633	-5,312702E-03
350	48,83633	-5,312722E-03
351	46,42351	-4,387897E-03
352	46,42355	-4,387902E-03
353	47,57107	-5,883869E-03
354	47,57106	-5,883848E-03
355	50,80025	-5,165577E-03
356	50,80023	-5,165584E-03
357	53,66034	-5,462846E-03
358	53,66034	-5,462827E-03
359	53,00868	-5,433524E-03
360	53,00865	-5,43355E-03
361	53,0163	-3,427235E-03
362	53,01632	-3,427217E-03
363	53,70737	-3,855389E-03
364	53,70736	-3,855366E-03

x(DT) (s)	H(8 , 4 ,DT) (m)	Q(8 , 4 ,DT) (m3/s)
1	54,61238	0,02697
2	54,61238	0,02697
3	54,61238	0,02697
4	54,61238	0,02697
5	54,61238	0,02697
6	54,61238	0,02697
7	54,61239	0,02697
8	54,61239	0,02697
9	54,61238	0,02697
10	54,61238	0,02697
11	54,61238	2,697001E-02
12	54,61238	2,697001E-02
13	54,61238	2,697001E-02
14	54,61238	2,697001E-02
15	54,61237	0,02697
16	54,61237	0,02697
17	54,61238	0,02697
18	25,65324	8,708642E-03
19	25,65326	8,708639E-03

20	22,87281	7,671087E-03
21	22,8728	0,0076711
22	29,97571	-2,681653E-03
23	29,97571	-2,681653E-03
24	29,14571	7,151689E-03
25	29,14572	7,151695E-03
26	38,31831	-8,251777E-03
27	38,31829	-8,251782E-03
28	45,63914	-1,500063E-02
29	45,63914	-1,500062E-02
30	52,46843	-2,252067E-02
31	52,46843	-2,252067E-02
32	48,48095	-1,430021E-02
33	48,48093	-0,0143002
34	44,50969	-1,434332E-02
35	44,50969	-1,434333E-02
36	43,30266	-1,590739E-02
37	43,30267	-1,590739E-02
38	50,52365	-1,944252E-02
39	50,52365	-1,944252E-02
40	53,41066	-1,674891E-02
41	53,41064	-0,0167489
42	51,25038	-1,485125E-02
43	51,25038	-1,485125E-02
44	47,67553	-1,626981E-02
45	47,67555	-1,626982E-02
46	47,56532	-1,841171E-02
47	47,56531	-1,841171E-02
48	51,90639	-1,514556E-02
49	51,90639	-1,514555E-02
50	44,68635	-1,715185E-02
51	44,68636	-1,715184E-02
52	43,23398	-1,625632E-02
53	43,23397	-1,625632E-02
54	54,78004	-1,677297E-02
55	54,78004	-1,677298E-02
56	51,14347	-1,572266E-02
57	51,14349	-1,572266E-02
58	60,37052	-7,548932E-03
59	60,3705	-7,548924E-03
60	67,73255	-7,35091E-03
61	67,73254	-7,350919E-03
62	69,82539	2,958836E-03
63	69,82541	2,958821E-03
64	64,41917	-3,149191E-04
65	64,41915	-3,149219E-04
66	56,52933	6,126213E-03
67	56,52933	6,126225E-03
68	53,02247	5,417366E-03
69	53,0225	5,417365E-03
70	52,52308	0,0162675
71	52,52307	0,0162675
72	54,22219	1,466718E-02
73	54,2222	1,466718E-02
74	52,27431	1,449052E-02
75	52,27432	1,449052E-02
76	53,93848	8,618316E-03
77	53,93847	8,61834E-03
78	51,5601	1,178925E-02
79	51,56012	1,178928E-02
80	50,36214	1,486797E-02
81	50,36212	1,486797E-02
82	45,07301	0,0137963
83	45,07299	1,379629E-02
84	45,3559	9,574552E-03
85	45,35591	9,57454E-03

86	56,39339	1,138476E-02
87	56,39339	1,138478E-02
88	53,60651	1,125501E-02
89	53,60649	1,125502E-02
90	50,21661	1,429126E-02
91	50,21661	1,429126E-02
92	54,19446	9,808416E-03
93	54,19448	9,808397E-03
94	50,32325	1,054144E-02
95	50,32326	1,054146E-02
96	48,2547	1,100776E-02
97	48,25471	1,100777E-02
98	41,0008	7,209669E-03
99	41,0008	7,209671E-03
100	38,49096	4,296508E-03
101	38,49096	4,296501E-03
102	37,16645	-2,351974E-03
103	37,16645	-2,351968E-03
104	40,84325	-7,991731E-04
105	40,84327	-7,991443E-04
106	43,03909	-5,927636E-03
107	43,03908	-5,927642E-03
108	47,64667	-4,714252E-03
109	47,64662	-4,714272E-03
110	49,82491	-1,239904E-02
111	49,82492	-1,239904E-02
112	48,22029	-1,028694E-02
113	48,22028	-1,028694E-02
114	47,09145	-1,373598E-02
115	47,09143	-1,373596E-02
116	45,42231	-9,866291E-03
117	45,42233	-9,866321E-03
118	53,5002	-8,842482E-03
119	53,5002	-8,842501E-03
120	53,63287	-8,806383E-03
121	53,63286	-8,806393E-03
122	51,03059	-1,136599E-02
123	51,0306	-1,136599E-02
124	55,25476	-1,003362E-02
125	55,2548	-1,003361E-02
126	51,11466	-9,338415E-03
127	51,11467	-9,338437E-03
128	46,59947	-5,491308E-03
129	46,59949	-5,491308E-03
130	46,65259	-1,002579E-02
131	46,6526	-1,002581E-02
132	48,47326	-9,177403E-03
133	48,47324	-9,177361E-03
134	52,8272	-8,936583E-03
135	52,82719	-8,936589E-03
136	53,81277	-5,398417E-03
137	53,81274	-5,398422E-03
138	56,13113	-5,128459E-03
139	56,13114	-5,12848E-03
140	58,0069	-3,953956E-03
141	58,00687	-3,953965E-03
142	62,23728	3,770937E-04
143	62,2373	3,771127E-04
144	58,565	3,000085E-03
145	58,56502	3,00008E-03
146	55,62503	6,692966E-03
147	55,62501	6,692963E-03
148	51,42171	3,433129E-03
149	51,42176	3,433124E-03
150	53,61098	9,392835E-03
151	53,61101	9,392836E-03

152	54,18454	9,246167E-03
153	54,18452	9,246189E-03
154	49,88813	1,240258E-02
155	49,8881	1,240257E-02
156	53,54337	8,782873E-03
157	53,54338	8,782881E-03
158	51,13589	8,13376E-03
159	51,13593	8,133774E-03
160	45,81511	7,236295E-03
161	45,81511	7,236323E-03
162	46,16584	8,683552E-03
163	46,16583	8,683546E-03
164	47,39101	7,34086E-03
165	47,39096	7,340832E-03
166	50,4986	8,676459E-03
167	50,49858	8,676468E-03
168	52,61552	5,374837E-03
169	52,61549	5,374831E-03
170	52,86958	6,462574E-03
171	52,86958	6,462589E-03
172	51,87296	5,166537E-03
173	51,87296	5,166482E-03
174	50,03605	7,986281E-03
175	50,03604	7,986272E-03
176	46,53888	4,996598E-03
177	46,53893	4,996583E-03
178	43,53344	3,921522E-03
179	43,53342	3,921526E-03
180	44,38002	2,657544E-04
181	44,38005	2,657555E-04
182	43,59741	2,018003E-04
183	43,59746	2,017833E-04
184	45,25215	-1,284856E-03
185	45,25215	-1,284853E-03
186	42,51402	-5,997368E-03
187	42,514	-5,997363E-03
188	48,36847	-5,788792E-03
189	48,36844	-5,788778E-03
190	50,68919	-8,123752E-03
191	50,6892	-8,123732E-03
192	46,62285	-6,427587E-03
193	46,62285	-6,427591E-03
194	47,78305	-1,017845E-02
195	47,78304	-1,017844E-02
196	49,68827	-9,589273E-03
197	49,68825	-9,589307E-03
198	51,7093	-8,329058E-03
199	51,70929	-8,329052E-03
200	53,90018	-5,079634E-03
201	53,90017	-5,079654E-03
202	54,06412	-6,574082E-03
203	54,0641	-6,574078E-03
204	53,37566	-6,506815E-03
205	53,37571	-6,506818E-03
206	51,85056	-7,38466E-03
207	51,85058	-7,384656E-03
208	48,90978	-4,406372E-03
209	48,90981	-4,406351E-03
210	46,72199	-4,926474E-03
211	46,72198	-4,926484E-03
212	49,47063	-3,644761E-03
213	49,47064	-3,644737E-03
214	52,04633	-5,901036E-03
215	52,04638	-5,901016E-03
216	54,4917	-2,964553E-03
217	54,49166	-2,964518E-03

218	54,56325	-4,235544E-03
219	54,56323	-4,235536E-03
220	55,31649	7,506894E-05
221	55,31646	7,504546E-05
222	57,99485	8,514882E-04
223	57,99484	8,515047E-04
224	53,02763	2,664492E-03
225	53,02763	2,664522E-03
226	54,57839	4,046886E-03
227	54,57838	4,04691E-03
228	54,8154	4,893564E-03
229	54,81542	4,893533E-03
230	52,74594	7,973435E-03
231	52,74597	7,973422E-03
232	51,75127	7,364003E-03
233	51,75127	7,364021E-03
234	51,78317	7,91565E-03
235	51,78312	7,915674E-03
236	51,19806	7,223059E-03
237	51,19808	7,223074E-03
238	49,89818	8,548788E-03
239	49,89818	8,54877E-03
240	46,97776	6,149482E-03
241	46,9778	6,14951E-03
242	45,06427	5,063129E-03
243	45,06426	5,063124E-03
244	47,68224	3,928585E-03
245	47,68218	3,928598E-03
246	50,41787	5,86452E-03
247	50,41789	5,864509E-03
248	51,27344	5,279248E-03
249	51,2734	5,279234E-03
250	51,93725	4,056354E-03
251	51,93724	4,056366E-03
252	50,96158	1,36777E-03
253	50,96159	1,367744E-03
254	51,14678	4,222183E-03
255	51,14678	4,222164E-03
256	45,95871	2,406324E-03
257	45,95872	2,406289E-03
258	44,59195	3,660701E-03
259	44,59194	3,660695E-03
260	47,71413	-9,321545E-04
261	47,71415	-9,321436E-04
262	46,03494	-7,654001E-04
263	46,03498	-7,653863E-04
264	46,87852	-2,969797E-03
265	46,87854	-2,969807E-03
266	46,63901	-3,739774E-03
267	46,63898	-3,739801E-03
268	47,26582	-5,270481E-03
269	47,26581	-5,270482E-03
270	47,55249	-6,229642E-03
271	47,55248	-6,229633E-03
272	48,72999	-6,855436E-03
273	48,72999	-6,855406E-03
274	48,57896	-7,795374E-03
275	48,57897	-7,795387E-03
276	50,87728	-6,78587E-03
277	50,87727	-6,785906E-03
278	52,49242	-6,895047E-03
279	52,49246	-6,895051E-03
280	52,78755	-5,406838E-03
281	52,78754	-5,40683E-03
282	54,07425	-5,317306E-03
283	54,07421	-5,317281E-03

284	53,75845	-3,997839E-03
285	53,75847	-3,997865E-03
286	52,43109	-3,344889E-03
287	52,43112	-3,344887E-03
288	49,08461	-3,695128E-03
289	49,08466	-3,695103E-03
290	47,26468	-4,331847E-03
291	47,26467	-4,331834E-03
292	51,74982	-1,881154E-03
293	51,74981	-1,881141E-03
294	51,46002	-2,074962E-03
295	51,46001	-2,074968E-03
296	52,54343	-2,598941E-04
297	52,54343	-2,598501E-04
298	54,56223	-3,273419E-03
299	54,56223	-3,273412E-03
300	54,25885	-2,028763E-05
301	54,25883	-2,02769E-05
302	53,77546	1,002075E-03
303	53,77546	1,002045E-03
304	52,62354	4,359042E-03
305	52,62355	4,359051E-03
306	52,85403	3,119101E-03
307	52,85402	3,119121E-03
308	53,57405	4,694419E-03
309	53,57402	4,694424E-03
310	54,73434	5,379197E-03
311	54,73436	5,379194E-03
312	51,69176	6,957176E-03
313	51,69177	6,957158E-03
314	50,91716	6,920596E-03
315	50,91711	6,920591E-03
316	49,92986	5,993085E-03
317	49,92988	5,993089E-03
318	49,06422	6,368732E-03
319	49,06424	6,368732E-03
320	47,43192	5,288009E-03
321	47,43194	5,288028E-03
322	45,89334	4,213582E-03
323	45,89334	4,213544E-03
324	48,62433	3,62589E-03
325	48,62432	3,625896E-03
326	49,3747	2,946129E-03
327	49,37469	2,946117E-03
328	49,27409	2,899016E-03
329	49,27402	2,899023E-03
330	52,44118	2,689407E-03
331	52,44118	2,689393E-03
332	50,93366	1,624877E-03
333	50,93366	1,624836E-03
334	49,1483	2,078536E-03
335	49,14833	2,078537E-03
336	47,24459	-1,839738E-04
337	47,24463	-1,83996E-04
338	47,03684	9,917329E-04
339	47,03683	9,917271E-04
340	47,60391	-5,389064E-04
341	47,60389	-5,38939E-04
342	48,70516	3,00298E-04
343	48,70519	3,003148E-04
344	47,87774	-3,859354E-03
345	47,87776	-3,859338E-03
346	47,4977	-3,877994E-03
347	47,49766	-3,877978E-03
348	48,51708	-5,601168E-03
349	48,5171	-5,601179E-03

350	47,07819	-3,884466E-03
351	47,07821	-3,884493E-03
352	47,97402	-5,598485E-03
353	47,97402	-5,598456E-03
354	48,79024	-6,814138E-03
355	48,79024	-6,814131E-03
356	52,46512	-6,458786E-03
357	52,4651	-6,458786E-03
358	53,35568	-5,187672E-03
359	53,3557	-5,187665E-03
360	51,78425	-4,427908E-03
361	51,78422	-4,427932E-03
362	53,65018	-3,917853E-03
363	53,65019	-3,917822E-03
364	53,58569	-3,742217E-03

Trecho 9

x(DT) (s)	H(9 , 1 ,DT) (m)	Q(9 , 1 ,DT) (m3/s)
1	54,61238	0,02697
2	54,61238	0,02697
3	54,61238	0,02697
4	54,61238	0,02697
5	54,61238	0,02697
6	54,61238	0,02697
7	54,61239	0,02697
8	54,61239	0,02697
9	54,61238	0,02697
10	54,61238	0,02697
11	54,61238	2,697001E-02
12	54,61238	0,02697
13	54,61238	2,697001E-02
14	54,61238	2,697001E-02
15	54,61237	0,02697
16	54,61237	0,02697
17	54,61238	0,02697
18	25,65324	8,708642E-03
19	25,65326	8,70864E-03
20	22,87281	7,671087E-03
21	22,8728	7,671099E-03
22	29,97571	-2,681652E-03
23	29,97571	-2,681652E-03
24	29,14571	7,15169E-03
25	29,14572	7,151696E-03
26	38,31831	-8,251779E-03
27	38,31829	-8,251781E-03
28	45,63914	-1,500063E-02
29	45,63914	-1,500062E-02
30	52,46843	-2,252067E-02
31	52,46843	-2,252067E-02
32	48,48095	-1,430021E-02
33	48,48093	-0,0143002
34	44,50969	-1,434332E-02
35	44,50969	-1,434333E-02
36	43,30266	-1,590738E-02
37	43,30267	-1,590739E-02
38	50,52365	-1,944251E-02
39	50,52365	-1,944251E-02
40	53,41066	-1,674891E-02
41	53,41064	-1,674891E-02
42	51,25038	-1,485125E-02
43	51,25038	-1,485125E-02
44	47,67553	-1,626981E-02
45	47,67555	-1,626982E-02
46	47,56532	-1,841171E-02
47	47,56531	-1,841171E-02

48	51,90639	-1,514556E-02
49	51,90639	-1,514555E-02
50	44,68635	-1,715185E-02
51	44,68636	-1,715184E-02
52	43,23398	-1,625631E-02
53	43,23397	-1,625632E-02
54	54,78004	-1,677297E-02
55	54,78004	-1,677298E-02
56	51,14347	-1,572266E-02
57	51,14349	-1,572266E-02
58	60,37052	-7,548929E-03
59	60,3705	-7,548926E-03
60	67,73255	-7,350915E-03
61	67,73254	-7,35092E-03
62	69,82539	2,958835E-03
63	69,82541	2,958826E-03
64	64,41917	-3,149191E-04
65	64,41915	-3,14925E-04
66	56,52933	6,126212E-03
67	56,52933	6,126226E-03
68	53,02247	5,417364E-03
69	53,0225	5,417365E-03
70	52,52308	0,0162675
71	52,52307	0,0162675
72	54,22219	1,466718E-02
73	54,2222	1,466718E-02
74	52,27431	1,449052E-02
75	52,27432	1,449052E-02
76	53,93848	8,618318E-03
77	53,93847	8,61834E-03
78	51,5601	1,178925E-02
79	51,56012	1,178927E-02
80	50,36214	1,486798E-02
81	50,36212	1,486797E-02
82	45,07301	0,0137963
83	45,07299	1,379629E-02
84	45,3559	9,574549E-03
85	45,35591	9,574541E-03
86	56,39339	1,138476E-02
87	56,39339	1,138478E-02
88	53,60651	1,125501E-02
89	53,60649	1,125502E-02
90	50,21661	1,429126E-02
91	50,21661	1,429126E-02
92	54,19446	9,808418E-03
93	54,19448	0,0098084
94	50,32325	1,054144E-02
95	50,32326	1,054146E-02
96	48,2547	1,100776E-02
97	48,25471	1,100777E-02
98	41,0008	7,209671E-03
99	41,0008	7,209672E-03
100	38,49096	4,29651E-03
101	38,49096	4,296502E-03
102	37,16645	-2,351974E-03
103	37,16645	-2,35197E-03
104	40,84325	-7,991715E-04
105	40,84327	-7,991432E-04
106	43,03909	-5,927635E-03
107	43,03908	-5,92764E-03
108	47,64667	-4,71425E-03
109	47,64662	-4,714274E-03
110	49,82491	-1,239903E-02
111	49,82492	-1,239904E-02
112	48,22029	-1,028694E-02
113	48,22028	-1,028695E-02

114	47,09145	-1,373597E-02
115	47,09143	-1,373596E-02
116	45,42231	-9,866291E-03
117	45,42233	-9,866323E-03
118	53,5002	-8,84248E-03
119	53,5002	-8,842503E-03
120	53,63287	-8,806381E-03
121	53,63286	-8,806393E-03
122	51,03059	-1,136599E-02
123	51,0306	-1,136599E-02
124	55,25476	-1,003362E-02
125	55,2548	-1,003362E-02
126	51,11466	-9,338416E-03
127	51,11467	-9,338434E-03
128	46,59947	-5,49131E-03
129	46,59949	-5,491306E-03
130	46,65259	-0,0100258
131	46,6526	-0,0100258
132	48,47326	-9,177402E-03
133	48,47324	-9,177362E-03
134	52,8272	-8,936583E-03
135	52,82719	-8,936587E-03
136	53,81277	-5,398418E-03
137	53,81274	-5,39842E-03
138	56,13113	-5,12846E-03
139	56,13114	-5,12848E-03
140	58,0069	-3,953956E-03
141	58,00687	-3,953967E-03
142	62,23728	3,770947E-04
143	62,2373	3,771129E-04
144	58,565	3,000085E-03
145	58,56502	3,00008E-03
146	55,62503	6,692966E-03
147	55,62501	6,692964E-03
148	51,42171	3,433131E-03
149	51,42176	3,433123E-03
150	53,61098	9,392836E-03
151	53,61101	9,392836E-03
152	54,18454	9,246167E-03
153	54,18452	9,24619E-03
154	49,88813	1,240258E-02
155	49,8881	1,240257E-02
156	53,54337	8,782873E-03
157	53,54338	8,782883E-03
158	51,13589	8,13376E-03
159	51,13593	8,133775E-03
160	45,81511	7,236294E-03
161	45,81512	7,236325E-03
162	46,16584	8,683554E-03
163	46,16583	8,683546E-03
164	47,39101	7,34086E-03
165	47,39096	7,340831E-03
166	50,4986	8,676461E-03
167	50,49858	8,676471E-03
168	52,61552	5,374835E-03
169	52,61549	5,374829E-03
170	52,86958	6,462573E-03
171	52,86958	6,462588E-03
172	51,87296	5,166537E-03
173	51,87296	5,166483E-03
174	50,03605	7,986279E-03
175	50,03604	7,986271E-03
176	46,53888	4,996597E-03
177	46,53893	4,996582E-03
178	43,53344	3,92152E-03
179	43,53342	3,921526E-03

180	44,38002	2,657527E-04
181	44,38005	2,657565E-04
182	43,59741	2,018007E-04
183	43,59746	2,017854E-04
184	45,25215	-1,284858E-03
185	45,25215	-1,284853E-03
186	42,51402	-5,997366E-03
187	42,514	-5,997361E-03
188	48,36847	-5,78879E-03
189	48,36844	-5,788777E-03
190	50,68919	-8,123751E-03
191	50,6892	-8,12373E-03
192	46,62285	-6,427586E-03
193	46,62285	-6,427588E-03
194	47,78305	-1,017846E-02
195	47,78304	-1,017845E-02
196	49,68827	-9,589271E-03
197	49,68825	-9,589306E-03
198	51,7093	-8,329061E-03
199	51,70929	-8,329051E-03
200	53,90018	-5,079633E-03
201	53,90017	-5,079653E-03
202	54,06412	-6,574083E-03
203	54,0641	-6,574076E-03
204	53,37566	-6,506812E-03
205	53,37571	-6,506819E-03
206	51,85056	-7,384662E-03
207	51,85058	-7,384655E-03
208	48,90978	-4,406373E-03
209	48,90981	-4,40635E-03
210	46,72199	-4,926472E-03
211	46,72198	-4,926484E-03
212	49,47063	-3,64476E-03
213	49,47064	-3,64474E-03
214	52,04633	-5,901036E-03
215	52,04638	-5,901015E-03
216	54,4917	-2,964555E-03
217	54,49166	-2,96452E-03
218	54,56325	-4,235545E-03
219	54,56323	-4,235538E-03
220	55,31649	7,507035E-05
221	55,31646	7,504607E-05
222	57,99485	8,51488E-04
223	57,99484	8,515069E-04
224	53,02763	2,66449E-03
225	53,02763	2,664522E-03
226	54,57839	4,046887E-03
227	54,57838	4,046912E-03
228	54,8154	4,893564E-03
229	54,81542	4,893533E-03
230	52,74594	7,973437E-03
231	52,74597	7,973425E-03
232	51,75127	7,364002E-03
233	51,75127	7,364019E-03
234	51,78317	7,91565E-03
235	51,78312	7,915674E-03
236	51,19806	7,223058E-03
237	51,19808	7,223072E-03
238	49,89818	8,54879E-03
239	49,89818	8,548768E-03
240	46,97776	6,149483E-03
241	46,9778	6,149511E-03
242	45,06427	5,063131E-03
243	45,06426	5,063122E-03
244	47,68224	3,928583E-03
245	47,68218	3,928598E-03

246	50,41787	5,864522E-03
247	50,41789	5,86451E-03
248	51,27344	5,279247E-03
249	51,2734	5,279232E-03
250	51,93725	4,056352E-03
251	51,93724	4,056365E-03
252	50,96158	1,367769E-03
253	50,96159	1,367742E-03
254	51,14678	4,222181E-03
255	51,14678	4,222166E-03
256	45,95871	2,406322E-03
257	45,95872	2,40629E-03
258	44,59195	3,660702E-03
259	44,59194	3,660693E-03
260	47,71413	-9,321528E-04
261	47,71415	-9,321445E-04
262	46,03494	-7,653988E-04
263	46,03498	-7,653865E-04
264	46,87852	-2,969796E-03
265	46,87854	-2,969808E-03
266	46,63901	-3,739772E-03
267	46,63898	-0,0037398
268	47,26582	-5,27048E-03
269	47,26581	-5,270481E-03
270	47,55249	-6,229645E-03
271	47,55248	-6,229633E-03
272	48,72999	-6,855437E-03
273	48,72999	-6,855404E-03
274	48,57896	-7,795376E-03
275	48,57897	-7,79539E-03
276	50,87728	-6,785868E-03
277	50,87727	-6,785907E-03
278	52,49242	-6,895049E-03
279	52,49246	-6,895051E-03
280	52,78755	-5,406836E-03
281	52,78754	-5,406827E-03
282	54,07425	-5,317308E-03
283	54,07421	-5,317281E-03
284	53,75845	-3,997841E-03
285	53,75847	-3,997862E-03
286	52,43109	-3,344888E-03
287	52,43112	-3,344888E-03
288	49,08461	-3,695127E-03
289	49,08466	-3,695101E-03
290	47,26468	-4,331844E-03
291	47,26467	-4,331836E-03
292	51,74982	-1,881155E-03
293	51,74981	-1,88114E-03
294	51,46002	-2,074961E-03
295	51,46001	-2,074968E-03
296	52,54343	-2,598936E-04
297	52,54343	-2,598476E-04
298	54,56223	-3,273421E-03
299	54,56223	-3,273413E-03
300	54,25885	-2,028777E-05
301	54,25883	-2,027612E-05
302	53,77546	1,002075E-03
303	53,77546	1,002048E-03
304	52,62354	4,359041E-03
305	52,62355	4,35905E-03
306	52,85403	3,119102E-03
307	52,85402	3,119119E-03
308	53,57405	4,694417E-03
309	53,57402	4,694425E-03
310	54,73434	0,0053792
311	54,73436	5,379192E-03

312	51,69176	6,957175E-03
313	51,69177	6,957161E-03
314	50,91716	6,920596E-03
315	50,91711	6,920593E-03
316	49,92986	5,993083E-03
317	49,92988	5,99309E-03
318	49,06422	6,368733E-03
319	49,06424	6,368731E-03
320	47,43192	5,288007E-03
321	47,43194	5,288025E-03
322	45,89334	4,213583E-03
323	45,89334	4,213543E-03
324	48,62433	3,625888E-03
325	48,62432	3,625893E-03
326	49,3747	2,946129E-03
327	49,37469	2,946115E-03
328	49,27409	2,899016E-03
329	49,27402	2,899023E-03
330	52,44118	2,689409E-03
331	52,44118	2,689393E-03
332	50,93366	1,624878E-03
333	50,93366	1,624837E-03
334	49,1483	2,078535E-03
335	49,14833	2,078536E-03
336	47,24459	-1,839761E-04
337	47,24463	-1,839962E-04
338	47,03684	9,917323E-04
339	47,03683	9,91727E-04
340	47,60391	-5,389072E-04
341	47,60389	-5,389373E-04
342	48,70516	3,002954E-04
343	48,70519	3,003127E-04
344	47,87774	-3,859354E-03
345	47,87776	-3,859337E-03
346	47,4977	-3,877994E-03
347	47,49766	-3,877981E-03
348	48,51708	-5,601167E-03
349	48,5171	-5,601181E-03
350	47,07819	-3,884466E-03
351	47,07821	-3,884491E-03
352	47,97402	-5,598484E-03
353	47,97402	-5,598453E-03
354	48,79024	-6,814139E-03
355	48,79024	-6,814129E-03
356	52,46512	-6,458788E-03
357	52,4651	-6,458784E-03
358	53,35568	-5,187669E-03
359	53,3557	-5,187667E-03
360	51,78425	-4,427906E-03
361	51,78422	-4,427933E-03
362	53,65018	-3,917851E-03
363	53,65019	-3,917824E-03
364	53,58569	-3,742216E-03

x(DT) (s)	H(9 , 2 ,DT) (m)	Q(9 , 2 ,DT) (m3/s)
1	53,33255	0,02697
2	53,33255	0,02697
3	53,33255	0,02697
4	53,33256	0,02697
5	53,33256	0,02697
6	53,33256	0,02697
7	53,33256	0,02697
8	53,33256	0,02697
9	53,33256	0,02697
10	53,33255	0,02697

11	53,33255	2,697001E-02
12	53,33255	2,697001E-02
13	53,33255	0,02697
14	53,33256	2,697001E-02
15	53,33256	2,697001E-02
16	53,33255	0,02697
17	53,33254	0,02697
18	53,33256	0,02697
19	24,94661	9,070084E-03
20	24,94661	9,070098E-03
21	34,58121	2,225889E-04
22	34,58121	2,225917E-04
23	21,76459	2,504182E-03
24	21,76459	2,504182E-03
25	45,91117	-3,477204E-03
26	45,91118	-3,477193E-03
27	47,56241	-1,400547E-02
28	47,56239	-1,400547E-02
29	55,60369	-2,103451E-02
30	55,6037	-2,103451E-02
31	44,65805	-1,703279E-02
32	44,65804	-1,703278E-02
33	46,85925	-1,305069E-02
34	46,85925	-0,0130507
35	45,51876	-1,475137E-02
36	45,51876	-1,475138E-02
37	50,2919	-2,003397E-02
38	50,2919	-2,003398E-02
39	50,4814	-1,899646E-02
40	50,4814	-1,899645E-02
41	51,27296	-1,508964E-02
42	51,27295	-1,508965E-02
43	50,96488	-0,0144265
44	50,96489	-1,442651E-02
45	49,8157	-1,732569E-02
46	49,81571	-1,732568E-02
47	47,73388	-1,814188E-02
48	47,73387	-1,814188E-02
49	50,25777	-1,385144E-02
50	50,25777	-1,385143E-02
51	43,74061	-1,622907E-02
52	43,74062	-1,622906E-02
53	50,0094	-2,023562E-02
54	50,0094	-2,023563E-02
55	52,57628	-1,507116E-02
56	52,57629	-1,507117E-02
57	49,67907	-1,452494E-02
58	49,67906	-1,452493E-02
59	64,02903	-9,792723E-03
60	64,02902	-9,792726E-03
61	60,65888	-2,830371E-03
62	60,65889	-2,830384E-03
63	69,7023	3,026742E-03
64	69,7023	3,026744E-03
65	55,34137	5,409567E-03
66	55,34135	5,409562E-03
67	55,26325	6,882944E-03
68	55,26328	6,882944E-03
69	44,03635	1,105136E-02
70	44,03637	1,105138E-02
71	54,21321	1,490811E-02
72	54,21321	0,0149081
73	52,99576	1,520187E-02
74	52,99577	1,520187E-02
75	57,47172	1,098011E-02
76	57,47169	1,098013E-02

77	50,06364	1,097935E-02
78	50,06364	1,097936E-02
79	48,23177	1,373386E-02
80	48,23179	1,373388E-02
81	48,14707	1,601951E-02
82	48,14705	0,0160195
83	48,2768	1,156484E-02
84	48,27679	1,156482E-02
85	49,31586	6,975723E-03
86	49,31584	6,975734E-03
87	54,85766	1,220937E-02
88	54,85766	1,220939E-02
89	49,22319	1,387853E-02
90	49,2232	1,387853E-02
91	55,47874	0,0107464
92	55,47876	1,074639E-02
93	51,47838	1,141441E-02
94	51,47836	1,141442E-02
95	48,70638	1,143773E-02
96	48,70639	1,143775E-02
97	47,41834	1,140072E-02
98	47,41835	1,140073E-02
99	41,9724	6,539322E-03
100	41,9724	6,539315E-03
101	43,08242	1,380696E-03
102	43,08241	1,380696E-03
103	37,78507	-2,735935E-03
104	37,78506	-2,735923E-03
105	46,02266	-4,064552E-03
106	46,02269	-4,064531E-03
107	44,45213	-6,779696E-03
108	44,45211	-0,0067797
109	54,92441	-9,278866E-03
110	54,92438	-9,278904E-03
111	47,58609	-1,081668E-02
112	47,58608	-1,081668E-02
113	50,6036	-1,167242E-02
114	50,60356	-1,167241E-02
115	43,46572	-1,124028E-02
116	43,46576	-0,0112403
117	48,86024	-1,192621E-02
118	48,86024	-1,192623E-02
119	53,67586	-8,866495E-03
120	53,67585	-8,866508E-03
121	54,5051	-9,270355E-03
122	54,50508	-9,270364E-03
123	52,32742	-1,204042E-02
124	52,32744	-1,204043E-02
125	52,78358	-8,363621E-03
126	52,78362	-8,363618E-03
127	45,91466	-5,96259E-03
128	45,91466	-0,0059626
129	50,3014	-7,792258E-03
130	50,30143	-7,792255E-03
131	47,06978	-1,017735E-02
132	47,06973	-1,017732E-02
133	50,62933	-1,044355E-02
134	50,62935	-1,044354E-02
135	50,63383	-7,464853E-03
136	50,63381	-7,464853E-03
137	54,81519	-5,998199E-03
138	54,8152	-5,998221E-03
139	56,18406	-5,132654E-03
140	56,18404	-5,132656E-03
141	56,71028	-3,118975E-03
142	56,71025	-3,118988E-03

143	58,31408	2,850873E-03
144	58,31412	2,850881E-03
145	54,12952	5,787073E-03
146	54,12952	5,78708E-03
147	56,03283	6,38611E-03
148	56,03285	6,386082E-03
149	47,75155	5,734419E-03
150	47,75159	5,734425E-03
151	53,86301	9,136022E-03
152	53,86299	9,136049E-03
153	49,32713	1,221435E-02
154	49,32713	1,221436E-02
155	54,37272	9,403974E-03
156	54,37269	9,403961E-03
157	52,71164	9,221767E-03
158	52,71166	9,221772E-03
159	49,05159	9,374699E-03
160	49,05159	9,374731E-03
161	44,74259	7,854512E-03
162	44,74262	7,854531E-03
163	47,72569	7,616268E-03
164	47,72567	7,616261E-03
165	47,79495	7,026346E-03
166	47,79489	7,026324E-03
167	54,07337	6,338718E-03
168	54,07336	6,338725E-03
169	51,82464	5,841504E-03
170	51,82461	5,841498E-03
171	53,32914	6,126439E-03
172	53,3292	6,12642E-03
173	48,65001	7,169284E-03
174	48,64997	7,169255E-03
175	50,5512	7,590658E-03
176	50,55123	7,590631E-03
177	45,84089	5,409041E-03
178	45,84089	5,409059E-03
179	46,83897	1,820019E-03
180	46,83898	1,820008E-03
181	44,03916	4,806193E-04
182	44,03922	4,806072E-04
183	45,60453	-1,06391E-03
184	45,60453	-1,063899E-03
185	47,62792	-2,781167E-03
186	47,62791	-2,781157E-03
187	45,36037	-7,752346E-03
188	45,36035	-7,752333E-03
189	51,46191	-7,702305E-03
190	51,46189	-7,702299E-03
191	47,40061	-5,976775E-03
192	47,40063	-5,976763E-03
193	50,27979	-8,687778E-03
194	50,27978	-8,687775E-03
195	48,45641	-1,048812E-02
196	48,45642	-1,048813E-02
197	49,86147	-9,596461E-03
198	49,86142	-9,59648E-03
199	50,33728	-7,386907E-03
200	50,3373	-7,386912E-03
201	55,22026	-5,883435E-03
202	55,22023	-5,883438E-03
203	53,73973	-6,321573E-03
204	53,73975	-6,321593E-03
205	53,38318	-6,464575E-03
206	53,3832	-6,464569E-03
207	48,08821	-4,951654E-03
208	48,08822	-4,95164E-03

209	48,25925	-3,974614E-03
210	48,25929	-3,974595E-03
211	47,12475	-5,153521E-03
212	47,12472	-5,153522E-03
213	52,58673	-5,594999E-03
214	52,58675	-5,59499E-03
215	50,99508	-5,199489E-03
216	50,99507	-5,199436E-03
217	55,55454	-3,625024E-03
218	55,55454	-3,625007E-03
219	51,54243	-2,310739E-03
220	51,54243	-2,310745E-03
221	56,04016	-3,812835E-04
222	56,04011	-3,81289E-04
223	54,0633	3,329881E-03
224	54,06329	3,329902E-03
225	52,69342	2,867364E-03
226	52,69342	2,867396E-03
227	53,99414	4,397139E-03
228	53,99419	4,397125E-03
229	51,27319	7,100679E-03
230	51,2732	7,100653E-03
231	52,61984	7,98241E-03
232	52,61983	7,982424E-03
233	51,23087	7,631999E-03
234	51,23083	7,632034E-03
235	51,93178	7,752419E-03
236	51,93177	7,752417E-03
237	49,39036	8,305093E-03
238	49,3904	8,305091E-03
239	50,21598	8,267304E-03
240	50,21596	8,267298E-03
241	46,8152	6,210038E-03
242	46,81524	6,21006E-03
243	47,23848	3,66365E-03
244	47,23843	3,663666E-03
245	47,48714	4,034487E-03
246	47,48714	4,034465E-03
247	51,25477	5,298622E-03
248	51,25476	5,298628E-03
249	52,53302	4,454047E-03
250	52,53297	4,454041E-03
251	53,55874	3,015602E-03
252	53,55877	3,015589E-03
253	48,78265	2,73971E-03
254	48,78264	2,739689E-03
255	49,95528	4,953749E-03
256	49,9553	4,953722E-03
257	44,26505	3,467903E-03
258	44,26503	3,467891E-03
259	49,78284	3,725104E-04
260	49,78283	3,725011E-04
261	46,74317	-3,189109E-04
262	46,74319	-3,189063E-04
263	48,20914	-2,13578E-03
264	48,20919	-2,135774E-03
265	47,38651	-3,280343E-03
266	47,38652	-3,28035E-03
267	48,19792	-4,70729E-03
268	48,19788	-4,70731E-03
269	48,22417	-5,843986E-03
270	48,22414	-5,84398E-03
271	48,71369	-6,918828E-03
272	48,71367	-6,918809E-03
273	49,48775	-7,281126E-03
274	49,48779	-7,28112E-03

275	49,03769	-8,017217E-03
276	49,0377	-8,017236E-03
277	51,85951	-7,354164E-03
278	51,8595	-7,354201E-03
279	51,53605	-6,239216E-03
280	51,53605	-6,239196E-03
281	53,41492	-5,770015E-03
282	53,41488	-5,769988E-03
283	52,91325	-4,553823E-03
284	52,91328	-4,553842E-03
285	52,6004	-3,249846E-03
286	52,6004	-3,24986E-03
287	51,05073	-2,462033E-03
288	51,05075	-2,462027E-03
289	48,70192	-3,438656E-03
290	48,70195	-3,438617E-03
291	47,59858	-4,521575E-03
292	47,59856	-4,521564E-03
293	51,76484	-1,886695E-03
294	51,76484	-1,88669E-03
295	50,56833	-1,507894E-03
296	50,56828	-1,507877E-03
297	55,94743	-2,406351E-03
298	55,94746	-2,406327E-03
299	51,84264	-1,546582E-03
300	51,84262	-1,546565E-03
301	53,20615	6,435346E-04
302	53,20617	6,435178E-04
303	50,52868	3,04835E-03
304	50,52866	3,048339E-03
305	53,69342	3,663303E-03
306	53,69341	3,663322E-03
307	51,94448	3,681865E-03
308	51,94446	3,681883E-03
309	53,57264	4,670854E-03
310	53,57265	4,670835E-03
311	51,89156	7,139723E-03
312	51,89158	7,139717E-03
313	51,24547	7,184903E-03
314	51,24544	7,18491E-03
315	51,07652	6,766965E-03
316	51,0765	6,766944E-03
317	49,13091	6,457044E-03
318	49,13093	6,457047E-03
319	49,03391	6,342845E-03
320	49,03391	6,342851E-03
321	47,46583	5,235595E-03
322	47,46589	5,235594E-03
323	47,701	3,053991E-03
324	47,70095	3,053975E-03
325	49,51876	3,047278E-03
326	49,51877	3,047273E-03
327	49,34644	2,95432E-03
328	49,34639	2,954337E-03
329	51,01361	1,792764E-03
330	51,0136	1,792737E-03
331	52,51904	2,632286E-03
332	52,51906	2,63226E-03
333	49,67382	2,416397E-03
334	49,67379	2,41637E-03
335	49,9845	1,546442E-03
336	49,98455	1,546426E-03
337	46,20832	4,695207E-04
338	46,20832	4,695263E-04
339	48,53316	4,70737E-05
340	48,53317	4,705694E-05

341	47,48957	-4,664846E-04
342	47,48954	-4,665051E-04
343	51,59162	-1,519978E-03
344	51,59164	-1,519959E-03
345	47,72796	-3,748382E-03
346	47,72796	-3,748345E-03
347	49,40952	-5,066885E-03
348	49,40953	-5,066903E-03
349	46,48018	-4,281907E-03
350	46,48021	-4,281927E-03
351	48,92069	-5,02959E-03
352	48,92065	-5,02958E-03
353	49,41043	-6,469492E-03
354	49,41044	-6,469472E-03
355	50,44033	-7,803156E-03
356	50,44033	-7,803141E-03
357	51,97197	-6,10153E-03
358	51,97197	-6,101539E-03
359	52,00755	-4,307686E-03
360	52,00756	-4,307686E-03
361	52,35	-4,762908E-03
362	52,34995	-4,762919E-03
363	53,50494	-3,809231E-03
364	53,50498	-3,809225E-03

x(DT) (s)	H(9 , 3 ,DT) (m)	Q(9 , 3 ,DT) (m3/s)
1	52,05272	0,02697
2	52,05272	0,02697
3	52,05272	0,02697
4	52,05272	0,02697
5	52,05273	0,02697
6	52,05273	0,02697
7	52,05273	0,02697
8	52,05273	0,02697
9	52,05272	2,697001E-02
10	52,05272	2,697001E-02
11	52,05272	0,02697
12	52,05272	2,697001E-02
13	52,05272	2,697001E-02
14	52,05272	0,02697
15	52,05273	2,697001E-02
16	52,05273	2,697001E-02
17	52,05272	2,696999E-02
18	52,05272	2,696999E-02
19	52,05272	0,02697
20	36,70463	1,564313E-03
21	36,70464	1,564317E-03
22	26,33792	5,420679E-03
23	26,33792	5,420682E-03
24	38,63334	-8,140054E-03
25	38,63334	-8,14005E-03
26	55,17151	-9,303272E-03
27	55,17151	-9,303256E-03
28	57,68699	-0,0201723
29	57,68698	-2,017231E-02
30	47,55766	-1,546985E-02
31	47,55764	-1,546983E-02
32	43,07362	-1,571177E-02
33	43,07363	-1,571177E-02
34	47,8473	-1,348477E-02
35	47,84731	-1,348478E-02
36	52,60219	-1,897668E-02
37	52,60219	-1,897669E-02
38	50,25383	-1,956465E-02
39	50,25383	-1,956465E-02

40	48,35892	-1,725766E-02
41	48,35893	-1,725765E-02
42	50,98234	-1,465375E-02
43	50,98234	-1,465376E-02
44	53,08442	-1,553214E-02
45	53,08442	-1,553214E-02
46	49,94246	-1,707256E-02
47	49,94246	-1,707256E-02
48	46,13074	-1,676578E-02
49	46,13074	-1,676578E-02
50	49,20126	-1,297234E-02
51	49,20126	-1,297233E-02
52	50,64577	-2,029116E-02
53	50,64578	-2,029116E-02
54	47,85677	-1,842386E-02
55	47,85677	-1,842387E-02
56	51,06353	-1,386521E-02
57	51,06351	-1,386521E-02
58	53,53342	-1,672138E-02
59	53,53343	-1,672138E-02
60	56,93171	-5,210819E-03
61	56,93172	-5,210831E-03
62	60,55016	-2,752922E-03
63	60,55015	-2,752925E-03
64	60,55654	8,783809E-03
65	60,55653	8,783815E-03
66	54,07476	6,175809E-03
67	54,07476	6,17579E-03
68	46,16399	1,256829E-02
69	46,164	1,256831E-02
70	45,87556	9,756065E-03
71	45,87558	9,756077E-03
72	52,96609	1,544793E-02
73	52,96609	1,544793E-02
74	58,25897	1,162653E-02
75	58,25895	1,162655E-02
76	53,50549	1,334741E-02
77	53,50549	1,334742E-02
78	46,7098	1,296049E-02
79	46,70981	1,296051E-02
80	46,01528	1,492228E-02
81	46,0153	0,0149223
82	51,35287	1,371323E-02
83	51,35287	1,371321E-02
84	52,24752	8,912539E-03
85	52,24749	8,912538E-03
86	47,83991	7,852452E-03
87	47,83989	7,852466E-03
88	50,39152	1,486028E-02
89	50,39154	1,486029E-02
90	54,57182	1,029203E-02
91	54,57184	1,029202E-02
92	52,71284	1,236242E-02
93	52,71282	1,236243E-02
94	49,82591	1,231189E-02
95	49,8259	1,231188E-02
96	47,85349	1,183041E-02
97	47,8535	1,183042E-02
98	48,33535	1,067825E-02
99	48,33537	1,067825E-02
100	46,56874	3,593464E-03
101	46,56873	3,593467E-03
102	43,69531	9,920961E-04
103	43,69529	9,921045E-04
104	42,99574	-6,013425E-03
105	42,99574	-6,013421E-03

106	47,42618	-4,931267E-03
107	47,4262	-4,931244E-03
108	51,8242	-1,137745E-02
109	51,8242	-1,137747E-02
110	52,60276	-7,71933E-03
111	52,60271	-7,719354E-03
112	50,00753	-1,221381E-02
113	50,00751	-1,221379E-02
114	46,88596	-9,176945E-03
115	46,88599	-9,176979E-03
116	46,97392	-1,331233E-02
117	46,97394	-1,331235E-02
118	49,092	-1,191454E-02
119	49,09198	-1,191455E-02
120	54,55652	-9,334606E-03
121	54,55651	-9,334619E-03
122	55,77583	-9,976314E-03
123	55,77583	-9,976335E-03
124	49,86145	-1,032456E-02
125	49,86147	-1,032457E-02
126	47,52861	-4,972277E-03
127	47,52864	-4,972266E-03
128	49,65036	-8,278841E-03
129	49,65036	-8,278854E-03
130	50,68601	-7,967417E-03
131	50,68598	-7,967384E-03
132	49,26705	-0,011448
133	49,26704	-0,011448
134	48,436	-8,939449E-03
135	48,43602	-8,93943E-03
136	51,66769	-8,05497E-03
137	51,66771	-8,054989E-03
138	54,87662	-5,997016E-03
139	54,87659	-5,997018E-03
140	54,88985	-4,287313E-03
141	54,88984	-4,287318E-03
142	52,78756	-6,345478E-04
143	52,78754	-6,345742E-04
144	53,85842	5,651556E-03
145	53,85843	5,651576E-03
146	54,55027	5,484595E-03
147	54,5503	5,484578E-03
148	52,3066	8,690587E-03
149	52,3066	8,690572E-03
150	48,05452	5,506889E-03
151	48,05451	5,50692E-03
152	48,95114	1,214079E-02
153	48,95114	1,214081E-02
154	53,87286	9,182321E-03
155	53,87287	9,182326E-03
156	53,52365	9,841269E-03
157	53,52363	9,841251E-03
158	50,58918	1,046582E-02
159	50,58916	1,046584E-02
160	47,93752	9,979708E-03
161	47,93755	9,979727E-03
162	46,32825	6,786154E-03
163	46,32828	6,786175E-03
164	48,1302	7,296827E-03
165	48,13018	7,296826E-03
166	51,41662	4,68778E-03
167	51,41656	4,687757E-03
168	53,26719	6,802504E-03
169	53,26718	6,802511E-03
170	52,29426	5,507507E-03
171	52,29428	5,507466E-03

172	50,0714	0,0081391
173	50,07141	8,139106E-03
174	49,18087	6,777501E-03
175	49,18086	6,777454E-03
176	49,81904	7,988428E-03
177	49,81901	7,988431E-03
178	49,15044	3,289612E-03
179	49,15046	3,289613E-03
180	46,49453	2,033543E-03
181	46,49456	2,033516E-03
182	46,04685	-7,856684E-04
183	46,04686	-7,856533E-04
184	47,98463	-2,563523E-03
185	47,98463	-2,56351E-03
186	50,46092	-4,559048E-03
187	50,4609	-4,559033E-03
188	48,5066	-9,669642E-03
189	48,50658	-9,669637E-03
190	48,1423	-5,543164E-03
191	48,14229	-5,543166E-03
192	51,0812	-8,258085E-03
193	51,08121	-8,258067E-03
194	50,93353	-9,016274E-03
195	50,93354	-9,016285E-03
196	48,64543	-1,048527E-02
197	48,64542	-1,048526E-02
198	48,49397	-8,63195E-03
199	48,49395	-8,631986E-03
200	51,69355	-8,181616E-03
201	51,69354	-8,181603E-03
202	54,88578	-5,634106E-03
203	54,88579	-5,634135E-03
204	53,7447	-6,280366E-03
205	53,7447	-6,280374E-03
206	49,5871	-4,024436E-03
207	49,58711	-4,024425E-03
208	47,43853	-4,51477E-03
209	47,43855	-4,514761E-03
210	48,65624	-4,20742E-03
211	48,65626	-4,207391E-03
212	50,27362	-7,109704E-03
213	50,27361	-7,109716E-03
214	51,52589	-4,891309E-03
215	51,52586	-4,89127E-03
216	52,08033	-5,853847E-03
217	52,08036	-5,853814E-03
218	52,52047	-1,697188E-03
219	52,52049	-1,697185E-03
220	52,27284	-2,765408E-03
221	52,27282	-2,765395E-03
222	52,10537	2,100121E-03
223	52,10532	2,100116E-03
224	53,72437	3,531308E-03
225	53,72435	3,53133E-03
226	52,11443	3,223342E-03
227	52,11449	3,223337E-03
228	50,43444	6,620402E-03
229	50,43448	6,620392E-03
230	51,15847	7,11708E-03
231	51,15844	7,117081E-03
232	52,0873	8,247529E-03
233	52,08726	8,247561E-03
234	51,38551	7,469856E-03
235	51,38552	7,469864E-03
236	50,10123	8,840067E-03
237	50,10124	8,840051E-03

238	49,71582	8,023333E-03
239	49,71583	8,023348E-03
240	50,02591	8,311325E-03
241	50,0259	8,311315E-03
242	48,99174	4,794743E-03
243	48,99174	4,794791E-03
244	47,04445	3,771112E-03
245	47,04446	3,771092E-03
246	48,34366	3,476311E-03
247	48,34364	3,476307E-03
248	52,52129	4,468813E-03
249	52,52127	4,468825E-03
250	54,15877	3,406852E-03
251	54,15876	3,406821E-03
252	51,3645	4,389179E-03
253	51,36452	4,389173E-03
254	47,59618	3,479555E-03
255	47,59619	3,479522E-03
256	48,23492	6,011363E-03
257	48,23491	6,011355E-03
258	49,4677	1,73818E-04
259	49,46768	1,738053E-04
260	48,81026	9,856549E-04
261	48,81026	9,856437E-04
262	48,91937	-1,69109E-03
263	48,9194	-1,691093E-03
264	48,71465	-2,449487E-03
265	48,71469	-2,449477E-03
266	48,94904	-4,253719E-03
267	48,94903	-4,253718E-03
268	49,15643	-5,287129E-03
269	49,15638	-5,28714E-03
270	49,38886	-6,540536E-03
271	49,38882	-6,540524E-03
272	49,47759	-7,347424E-03
273	49,47762	-7,347435E-03
274	49,94262	-7,50914E-03
275	49,94267	-7,509139E-03
276	50,04418	-8,580587E-03
277	50,04419	-8,580605E-03
278	50,90068	-6,689523E-03
279	50,90063	-6,689538E-03
280	52,17601	-6,599584E-03
281	52,17599	-6,599546E-03
282	52,25104	-4,999139E-03
283	52,25106	-4,999158E-03
284	51,75384	-3,799698E-03
285	51,75385	-3,799707E-03
286	51,21511	-2,364581E-03
287	51,21511	-2,36459E-03
288	50,66032	-2,209119E-03
289	50,66032	-2,209099E-03
290	49,03092	-3,633001E-03
291	49,03095	-3,632959E-03
292	47,62843	-4,517716E-03
293	47,62843	-4,517718E-03
294	50,87089	-1,319034E-03
295	50,87086	-1,319003E-03
296	53,98406	-3,659295E-03
297	53,98404	-3,659298E-03
298	53,21882	-6,79289E-04
299	53,21883	-6,792553E-04
300	50,79062	-8,805358E-04
301	50,79065	-8,805476E-04
302	49,95387	2,693935E-03
303	49,95387	2,693932E-03

304	51,61039	2,355922E-03
305	51,61035	2,355921E-03
306	52,77671	4,226482E-03
307	52,7767	4,226504E-03
308	51,95065	3,662928E-03
309	51,95068	3,662922E-03
310	50,71877	6,446276E-03
311	50,71877	6,446259E-03
312	51,44009	7,36786E-03
313	51,44007	7,367874E-03
314	51,40351	7,027966E-03
315	51,40351	7,027957E-03
316	50,26319	7,229035E-03
317	50,26318	7,229011E-03
318	49,0999	6,430336E-03
319	49,09991	6,430347E-03
320	49,05769	6,28321E-03
321	49,05773	6,283196E-03
322	49,27458	4,064604E-03
323	49,27459	4,064627E-03
324	48,60161	2,475728E-03
325	48,60158	2,475701E-03
326	49,48993	3,05516E-03
327	49,48989	3,055184E-03
328	51,09036	1,844936E-03
329	51,09036	1,844919E-03
330	51,09518	1,737765E-03
331	51,09518	1,737725E-03
332	51,25119	3,424087E-03
333	51,2512	3,424073E-03
334	50,5107	1,882187E-03
335	50,5107	1,882144E-03
336	48,94395	2,19995E-03
337	48,94396	2,199962E-03
338	47,70571	-4,749615E-04
339	47,70573	-4,749685E-04
340	48,41856	1,193398E-04
341	48,41855	1,193334E-04
342	50,38072	-2,289375E-03
343	50,38069	-2,289394E-03
344	51,4305	-1,415817E-03
345	51,4305	-1,415779E-03
346	49,64805	-4,943584E-03
347	49,6481	-4,94358E-03
348	47,35736	-3,744324E-03
349	47,35738	-3,744347E-03
350	48,33536	-5,431426E-03
351	48,33533	-5,431409E-03
352	50,36024	-5,909291E-03
353	50,36023	-5,909292E-03
354	51,06875	-7,468775E-03
355	51,06876	-7,468751E-03
356	49,95908	-7,432126E-03
357	49,9591	-7,432124E-03
358	50,62404	-5,21023E-03
359	50,62404	-5,210241E-03
360	52,57503	-4,644947E-03
361	52,57502	-4,64493E-03
362	52,21027	-4,649625E-03
363	52,21025	-4,649658E-03
364	51,10414	-2,279205E-03

Trecho 10

x(DT) (s)	H(10 , 1 ,DT) (m)	Q(10 , 1 ,DT) (m3/s)
1	52,05272	0,02697

2	52,05272	0,02697
3	52,05272	0,02697
4	52,05272	0,02697
5	52,05273	0,02697
6	52,05273	0,02697
7	52,05273	0,02697
8	52,05273	0,02697
9	52,05272	2,697001E-02
10	52,05272	2,697001E-02
11	52,05272	0,02697
12	52,05272	2,697001E-02
13	52,05272	0,02697
14	52,05272	0,02697
15	52,05273	2,697001E-02
16	52,05273	2,697001E-02
17	52,05272	0,02697
18	52,05272	2,696999E-02
19	52,05272	2,697001E-02
20	36,70463	1,564315E-03
21	36,70464	1,564315E-03
22	26,33792	5,420677E-03
23	26,33792	5,420683E-03
24	38,63334	-8,140056E-03
25	38,63334	-8,140048E-03
26	55,17151	-9,303271E-03
27	55,17151	-9,303254E-03
28	57,68699	-0,0201723
29	57,68698	-2,017231E-02
30	47,55766	-1,546985E-02
31	47,55764	-1,546983E-02
32	43,07362	-1,571177E-02
33	43,07363	-1,571177E-02
34	47,8473	-1,348476E-02
35	47,84731	-1,348478E-02
36	52,60219	-1,897668E-02
37	52,60219	-1,897669E-02
38	50,25383	-1,956465E-02
39	50,25383	-1,956465E-02
40	48,35892	-1,725765E-02
41	48,35893	-1,725765E-02
42	50,98234	-1,465375E-02
43	50,98234	-1,465375E-02
44	53,08442	-1,553214E-02
45	53,08442	-1,553214E-02
46	49,94246	-1,707256E-02
47	49,94246	-1,707256E-02
48	46,13074	-1,676578E-02
49	46,13074	-1,676579E-02
50	49,20126	-1,297235E-02
51	49,20126	-1,297233E-02
52	50,64577	-2,029116E-02
53	50,64578	-2,029116E-02
54	47,85677	-1,842386E-02
55	47,85677	-1,842387E-02
56	51,06353	-1,386522E-02
57	51,06351	-1,386521E-02
58	53,53342	-1,672138E-02
59	53,53343	-1,672138E-02
60	56,93171	-5,210823E-03
61	56,93172	-5,210832E-03
62	60,55016	-2,752924E-03
63	60,55015	-2,752922E-03
64	60,55654	8,783808E-03
65	60,55653	8,783816E-03
66	54,07476	6,175809E-03
67	54,07476	6,175794E-03

68	46,16399	1,256829E-02
69	46,164	1,256831E-02
70	45,87556	9,756063E-03
71	45,87558	9,756078E-03
72	52,96609	1,544793E-02
73	52,96609	1,544793E-02
74	58,25897	1,162653E-02
75	58,25895	1,162655E-02
76	53,50549	1,334741E-02
77	53,50549	1,334742E-02
78	46,7098	1,296049E-02
79	46,70981	1,296051E-02
80	46,01528	1,492228E-02
81	46,0153	0,0149223
82	51,35287	1,371323E-02
83	51,35287	1,371321E-02
84	52,24752	8,912539E-03
85	52,24749	8,912542E-03
86	47,83991	7,852449E-03
87	47,83989	7,852463E-03
88	50,39152	1,486028E-02
89	50,39154	1,486029E-02
90	54,57182	1,029204E-02
91	54,57184	1,029202E-02
92	52,71284	1,236242E-02
93	52,71282	1,236242E-02
94	49,82591	1,231188E-02
95	49,8259	1,231188E-02
96	47,85349	1,183041E-02
97	47,8535	1,183042E-02
98	48,33535	1,067825E-02
99	48,33537	1,067825E-02
100	46,56874	3,593466E-03
101	46,56873	3,593467E-03
102	43,69531	9,920925E-04
103	43,69529	9,921057E-04
104	42,99574	-6,013426E-03
105	42,99574	-6,013418E-03
106	47,42618	-4,931264E-03
107	47,4262	-4,931241E-03
108	51,8242	-1,137745E-02
109	51,8242	-1,137747E-02
110	52,60276	-7,719332E-03
111	52,60271	-7,719355E-03
112	50,00753	-1,221381E-02
113	50,00751	-1,221379E-02
114	46,88596	-9,176944E-03
115	46,88599	-9,176974E-03
116	46,97392	-1,331233E-02
117	46,97394	-1,331235E-02
118	49,092	-1,191454E-02
119	49,09198	-1,191456E-02
120	54,55652	-9,334606E-03
121	54,55651	-9,334616E-03
122	55,77583	-9,976316E-03
123	55,77583	-9,976331E-03
124	49,86145	-1,032456E-02
125	49,86147	-1,032457E-02
126	47,52861	-4,972276E-03
127	47,52864	-4,972263E-03
128	49,65036	-8,27884E-03
129	49,65036	-8,278855E-03
130	50,68601	-7,967414E-03
131	50,68598	-7,967384E-03
132	49,26705	-0,011448
133	49,26704	-1,144801E-02

134	48,436	-8,939453E-03
135	48,43602	-8,939434E-03
136	51,66769	-8,054968E-03
137	51,66771	-8,054987E-03
138	54,87662	-5,997016E-03
139	54,87659	-5,997017E-03
140	54,88985	-4,28731E-03
141	54,88984	-4,287321E-03
142	52,78756	-6,345444E-04
143	52,78754	-6,345782E-04
144	53,85842	5,651555E-03
145	53,85843	5,651574E-03
146	54,55027	5,484599E-03
147	54,5503	5,484581E-03
148	52,3066	8,690584E-03
149	52,3066	8,690576E-03
150	48,05452	5,50689E-03
151	48,05451	5,506922E-03
152	48,95114	1,214079E-02
153	48,95114	0,0121408
154	53,87286	9,182323E-03
155	53,87287	9,182329E-03
156	53,52365	9,84127E-03
157	53,52363	9,841253E-03
158	50,58918	1,046582E-02
159	50,58916	1,046584E-02
160	47,93752	9,979711E-03
161	47,93755	9,979724E-03
162	46,32825	6,786158E-03
163	46,32828	6,786173E-03
164	48,1302	7,29683E-03
165	48,13018	7,296822E-03
166	51,41662	4,687777E-03
167	51,41656	4,687757E-03
168	53,26719	6,802501E-03
169	53,26718	6,802511E-03
170	52,29426	5,50751E-03
171	52,29428	5,507466E-03
172	50,0714	8,139103E-03
173	50,07141	8,139105E-03
174	49,18087	6,777505E-03
175	49,18086	6,777455E-03
176	49,81904	7,988427E-03
177	49,81901	7,988427E-03
178	49,15044	3,289608E-03
179	49,15046	3,289609E-03
180	46,49453	2,033547E-03
181	46,49456	2,033515E-03
182	46,04685	-7,856686E-04
183	46,04686	-7,856496E-04
184	47,98463	-2,563521E-03
185	47,98463	-2,563506E-03
186	50,46092	-4,559046E-03
187	50,4609	-4,559033E-03
188	48,5066	-9,669646E-03
189	48,50658	-9,669641E-03
190	48,1423	-5,543162E-03
191	48,14229	-5,543168E-03
192	51,0812	-8,258084E-03
193	51,08121	-8,258064E-03
194	50,93353	-9,01627E-03
195	50,93354	-9,016288E-03
196	48,64543	-1,048527E-02
197	48,64542	-1,048526E-02
198	48,49397	-8,631954E-03
199	48,49395	-8,631983E-03

200	51,69355	-8,181617E-03
201	51,69354	-0,0081816
202	54,88578	-5,634108E-03
203	54,88579	-5,634133E-03
204	53,7447	-6,280364E-03
205	53,7447	-6,280373E-03
206	49,5871	-4,024433E-03
207	49,58711	-4,024429E-03
208	47,43853	-4,514767E-03
209	47,43855	-4,514758E-03
210	48,65624	-4,207422E-03
211	48,65626	-4,20739E-03
212	50,27362	-7,109701E-03
213	50,27361	-7,10972E-03
214	51,52589	-4,891306E-03
215	51,52586	-4,891268E-03
216	52,08033	-5,853847E-03
217	52,08036	-5,85381E-03
218	52,52047	-1,69719E-03
219	52,52049	-1,697188E-03
220	52,27284	-2,765405E-03
221	52,27282	-2,765396E-03
222	52,10537	2,100125E-03
223	52,10532	2,100112E-03
224	53,72437	3,53131E-03
225	53,72435	3,531329E-03
226	52,11443	3,223344E-03
227	52,11449	3,22334E-03
228	50,43444	6,620405E-03
229	50,43448	6,620394E-03
230	51,15847	7,117078E-03
231	51,15844	7,11708E-03
232	52,0873	8,247528E-03
233	52,08726	8,247562E-03
234	51,38551	7,469858E-03
235	51,38552	7,469862E-03
236	50,10123	8,840065E-03
237	50,10124	8,840053E-03
238	49,71582	8,023334E-03
239	49,71583	8,023352E-03
240	50,02591	8,311326E-03
241	50,0259	8,311314E-03
242	48,99174	4,794742E-03
243	48,99174	4,794787E-03
244	47,04445	3,771112E-03
245	47,04446	3,771095E-03
246	48,34366	3,476309E-03
247	48,34364	3,476309E-03
248	52,52129	4,468815E-03
249	52,52127	4,468821E-03
250	54,15877	3,406852E-03
251	54,15876	3,406824E-03
252	51,3645	4,389175E-03
253	51,36452	4,389171E-03
254	47,59618	3,479552E-03
255	47,59619	3,479526E-03
256	48,23492	6,011365E-03
257	48,23491	6,011354E-03
258	49,4677	1,738201E-04
259	49,46768	1,738023E-04
260	48,81026	9,856508E-04
261	48,81026	9,856434E-04
262	48,91937	-1,691086E-03
263	48,9194	-1,691089E-03
264	48,71465	-2,449487E-03
265	48,71469	-2,449475E-03

266	48,94904	-4,253721E-03
267	48,94903	-4,253719E-03
268	49,15643	-5,287131E-03
269	49,15638	-5,287138E-03
270	49,38886	-6,540535E-03
271	49,38882	-6,540525E-03
272	49,47759	-7,347426E-03
273	49,47762	-7,347433E-03
274	49,94262	-7,509137E-03
275	49,94267	-7,509137E-03
276	50,04418	-8,580589E-03
277	50,04419	-8,580608E-03
278	50,90068	-6,689521E-03
279	50,90063	-6,689535E-03
280	52,17601	-6,599581E-03
281	52,17599	-6,599543E-03
282	52,25104	-4,999136E-03
283	52,25106	-4,999159E-03
284	51,75384	-3,799699E-03
285	51,75385	-3,79971E-03
286	51,21511	-2,364585E-03
287	51,21511	-2,364592E-03
288	50,66032	-2,209124E-03
289	50,66032	-2,209101E-03
290	49,03092	-3,632998E-03
291	49,03095	-3,632962E-03
292	47,62843	-4,517717E-03
293	47,62843	-4,517717E-03
294	50,87089	-1,319033E-03
295	50,87086	-1,319002E-03
296	53,98406	-3,659295E-03
297	53,98404	-3,659297E-03
298	53,21882	-6,792928E-04
299	53,21883	-6,792515E-04
300	50,79062	-8,805396E-04
301	50,79065	-8,805487E-04
302	49,95387	2,693934E-03
303	49,95387	2,693936E-03
304	51,61039	2,355927E-03
305	51,61035	2,355923E-03
306	52,77671	4,226479E-03
307	52,7767	4,226505E-03
308	51,95065	3,662927E-03
309	51,95068	3,662919E-03
310	50,71877	6,446275E-03
311	50,71877	6,446259E-03
312	51,44009	7,367862E-03
313	51,44007	7,367874E-03
314	51,40351	7,027967E-03
315	51,40351	7,027953E-03
316	50,26319	7,229032E-03
317	50,26318	7,229014E-03
318	49,0999	6,430334E-03
319	49,09991	6,430346E-03
320	49,05769	6,283208E-03
321	49,05773	6,283198E-03
322	49,27458	4,064607E-03
323	49,27459	4,064625E-03
324	48,60161	2,475733E-03
325	48,60158	2,475703E-03
326	49,48993	3,055157E-03
327	49,48989	3,055183E-03
328	51,09036	1,844939E-03
329	51,09036	1,844923E-03
330	51,09518	1,737766E-03
331	51,09518	1,737727E-03

332	51,25119	3,424089E-03
333	51,2512	3,424073E-03
334	50,5107	1,882184E-03
335	50,5107	1,882145E-03
336	48,94395	2,199954E-03
337	48,94396	2,199965E-03
338	47,70571	-4,749644E-04
339	47,70573	-4,749713E-04
340	48,41856	1,19339E-04
341	48,41855	1,193338E-04
342	50,38072	-2,289376E-03
343	50,38069	-2,289396E-03
344	51,4305	-1,415813E-03
345	51,4305	-1,415782E-03
346	49,64805	-4,943585E-03
347	49,6481	-4,943577E-03
348	47,35736	-3,744326E-03
349	47,35738	-3,744347E-03
350	48,33536	-5,431429E-03
351	48,33533	-5,431405E-03
352	50,36024	-5,909289E-03
353	50,36023	-5,909291E-03
354	51,06875	-7,468772E-03
355	51,06876	-7,468752E-03
356	49,95908	-7,432123E-03
357	49,9591	-7,432127E-03
358	50,62404	-5,210229E-03
359	50,62404	-5,210237E-03
360	52,57503	-4,644942E-03
361	52,57502	-4,644932E-03
362	52,21027	-4,649625E-03
363	52,21025	-4,649656E-03
364	51,10414	-2,279209E-03

x(DT) (s)	H(10 , 2 ,DT) (m)	Q(10 , 2 ,DT) (m3/s)
1	51,56517	0,02697
2	51,56517	0,02697
3	51,56517	0,02697
4	51,56517	0,02697
5	51,56517	0,02697
6	51,56517	0,02697
7	51,56517	0,02697
8	51,56517	2,697001E-02
9	51,56517	2,697001E-02
10	51,56517	2,697001E-02
11	51,56517	2,697001E-02
12	51,56517	0,02697
13	51,56517	0,02697
14	51,56517	0,02697
15	51,56517	0,02697
16	51,56518	2,697001E-02
17	51,56518	0,02697
18	51,56516	2,697001E-02
19	51,56516	0,02697
20	51,56517	0,02697
21	30,3061	1,215309E-02
22	30,3061	0,0121531
23	36,61724	-0,0116273
24	36,61724	-1,162729E-02
25	47,44804	-2,265752E-02
26	47,44804	-2,265751E-02
27	59,83742	-1,693072E-02
28	59,83743	-1,693071E-02
29	51,36701	-9,259349E-03
30	51,36699	-9,259347E-03

31	45,51578	-1,182439E-02
32	45,51578	-1,182441E-02
33	44,9865	-1,860427E-02
34	44,98652	-1,860427E-02
35	52,0826	-2,029371E-02
36	52,0826	-2,029371E-02
37	51,82653	-1,729317E-02
38	51,82652	-1,729317E-02
39	48,83226	-1,678681E-02
40	48,83225	-1,678682E-02
41	49,09425	-1,814438E-02
42	49,09425	-1,814439E-02
43	52,46607	-1,687152E-02
44	52,46607	-1,687152E-02
45	52,12223	-1,367177E-02
46	52,12223	-1,367177E-02
47	48,10459	-1,370693E-02
48	48,10459	-1,370693E-02
49	46,7161	-1,742285E-02
50	46,71609	-1,742285E-02
51	52,29816	-1,791193E-02
52	52,29817	-1,791194E-02
53	48,92186	-1,698074E-02
54	48,92187	-1,698073E-02
55	48,31546	-1,880652E-02
56	48,31545	-1,880651E-02
57	53,3271	-0,0173988
58	53,32709	-0,0173988
59	51,91256	-1,372813E-02
60	51,91257	-1,372814E-02
61	58,02397	-6,988712E-03
62	58,02396	-6,988705E-03
63	57,06805	3,01942E-03
64	57,06804	3,019425E-03
65	58,02185	1,289388E-02
66	58,02185	1,289387E-02
67	48,08944	1,604099E-02
68	48,08944	1,604098E-02
69	46,77285	1,138518E-02
70	46,77287	1,138518E-02
71	47,65457	6,705653E-03
72	47,65459	6,70568E-03
73	56,65928	9,069829E-03
74	56,65926	9,069854E-03
75	55,22591	1,649718E-02
76	55,2259	1,649718E-02
77	50,04539	1,887726E-02
78	50,04538	1,887726E-02
79	45,64281	1,454031E-02
80	45,64282	1,454032E-02
81	48,94227	9,83017E-03
82	48,94229	9,830192E-03
83	53,15011	1,052961E-02
84	53,15009	1,052963E-02
85	50,2885	1,206717E-02
86	50,28847	1,206717E-02
87	46,94954	9,257867E-03
88	46,94954	9,257839E-03
89	53,76016	9,039158E-03
90	53,76019	9,039152E-03
91	52,92568	1,289936E-02
92	52,92568	1,289938E-02
93	51,16038	1,476264E-02
94	51,16037	1,476263E-02
95	48,8712	1,372402E-02
96	48,8712	1,372401E-02

97	48,35613	0,0108431
98	48,35615	0,0108431
99	49,52921	8,575538E-03
100	49,52922	8,575554E-03
101	45,90614	4,675939E-03
102	45,90612	4,675956E-03
103	45,46253	-1,934287E-03
104	45,46252	-1,934289E-03
105	44,92435	-9,165752E-03
106	44,92436	-9,165756E-03
107	51,62761	-0,0118589
108	51,62763	-1,185889E-02
109	51,18661	-1,017843E-02
110	51,18659	-1,017841E-02
111	52,70321	-7,819492E-03
112	52,70316	-7,819521E-03
113	47,60123	-8,065132E-03
114	47,60124	-8,065181E-03
115	48,25041	-1,134208E-02
116	48,25043	-0,0113421
117	47,73946	-1,438291E-02
118	47,73947	-1,438291E-02
119	51,16994	-1,519665E-02
120	51,16992	-1,519667E-02
121	55,42744	-1,067956E-02
122	55,42743	-1,067958E-02
123	52,9663	-5,215277E-03
124	52,96631	-5,215305E-03
125	47,12485	-5,676383E-03
126	47,12487	-5,676385E-03
127	49,62024	-8,407116E-03
128	49,62027	-8,407094E-03
129	50,12416	-8,987061E-03
130	50,12413	-8,987031E-03
131	51,07359	-8,538537E-03
132	51,07358	-8,53854E-03
133	48,16786	-9,483096E-03
134	48,16785	-9,483105E-03
135	49,85348	-1,119714E-02
136	49,85351	-1,119714E-02
137	52,7038	-9,698041E-03
138	52,70378	-9,698022E-03
139	54,38774	-5,147869E-03
140	54,38772	-5,147881E-03
141	52,74168	-7,110438E-04
142	52,74167	-7,110685E-04
143	51,42346	1,623895E-03
144	51,42345	1,623862E-03
145	54,23572	4,991569E-03
146	54,23576	4,99155E-03
147	52,42297	8,972536E-03
148	52,42299	8,972555E-03
149	51,07898	1,063887E-02
150	51,07896	1,063889E-02
151	46,46683	8,101341E-03
152	46,46684	8,10135E-03
153	52,24194	6,529973E-03
154	52,24195	6,529983E-03
155	53,43872	9,807411E-03
156	53,43872	9,807426E-03
157	51,78195	1,261684E-02
158	51,78193	1,261683E-02
159	49,32159	1,244253E-02
160	49,3216	1,244251E-02
161	48,03254	9,711917E-03
162	48,03257	9,711931E-03

163	47,04925	5,541606E-03
164	47,04926	5,541645E-03
165	50,54012	3,248614E-03
166	50,54008	3,248632E-03
167	51,68982	4,211158E-03
168	51,68978	4,211116E-03
169	53,14014	6,961466E-03
170	53,14016	6,96142E-03
171	50,35247	8,688111E-03
172	50,35247	8,68809E-03
173	49,9927	8,195866E-03
174	49,99272	8,195864E-03
175	49,10303	6,855372E-03
176	49,103	6,855363E-03
177	50,86988	6,178158E-03
178	50,86988	6,17812E-03
179	48,19033	4,866872E-03
180	48,19036	4,866852E-03
181	47,12055	9,927144E-04
182	47,12056	9,927241E-04
183	47,55658	-3,284033E-03
184	47,55659	-3,284009E-03
185	49,83835	-5,624693E-03
186	49,83834	-5,624666E-03
187	51,04458	-5,502108E-03
188	51,04456	-5,502106E-03
189	47,12711	-7,282442E-03
190	47,12711	-7,282451E-03
191	50,4715	-9,364607E-03
192	50,4715	-9,364615E-03
193	51,28355	-8,517371E-03
194	51,28357	-8,517371E-03
195	50,28108	-7,846081E-03
196	50,28107	-7,846068E-03
197	48,07648	-9,421514E-03
198	48,07648	-9,421509E-03
199	50,02386	-1,108171E-02
200	50,02383	-1,108173E-02
201	52,57325	-9,563516E-03
202	52,57327	-9,563534E-03
203	54,5295	-5,009128E-03
204	54,5295	-5,009143E-03
205	50,99865	-1,691069E-03
206	50,99865	-1,691075E-03
207	48,66843	-2,485784E-03
208	48,66844	-2,485779E-03
209	47,97106	-5,373638E-03
210	47,97107	-5,373619E-03
211	50,36402	-7,014668E-03
212	50,36404	-7,014633E-03
213	50,2632	-7,036364E-03
214	50,26316	-7,036338E-03
215	52,11329	-5,837094E-03
216	52,11329	-5,837101E-03
217	51,06205	-4,130254E-03
218	51,06208	-4,130229E-03
219	52,72166	-2,027026E-03
220	52,72166	-2,026982E-03
221	50,722	-1,898114E-04
222	50,72197	-1,897918E-04
223	52,48036	1,474518E-03
224	52,48032	1,474483E-03
225	53,00079	4,715204E-03
226	53,00082	4,715153E-03
227	50,23141	6,328774E-03
228	50,23147	6,32879E-03

229	50,61858	6,266972E-03
230	50,61858	6,267024E-03
231	51,24843	6,911957E-03
232	51,24839	6,911981E-03
233	51,92463	8,441322E-03
234	51,92463	8,441298E-03
235	50,2822	9,234248E-03
236	50,28222	9,234239E-03
237	50,10337	8,749801E-03
238	50,10338	8,74981E-03
239	49,74133	7,90968E-03
240	49,74134	7,909698E-03
241	50,52953	7,40103E-03
242	50,52951	7,401038E-03
243	48,30791	5,901164E-03
244	48,30794	5,901171E-03
245	47,77617	2,54412E-03
246	47,77615	2,54414E-03
247	50,12854	5,083793E-04
248	50,12852	5,083799E-04
249	53,65189	2,575178E-03
250	53,65189	2,575155E-03
251	52,44803	6,225752E-03
252	52,44803	6,225722E-03
253	49,73189	7,070258E-03
254	49,73191	7,070249E-03
255	47,14077	4,219965E-03
256	47,14076	4,219963E-03
257	50,60107	2,05458E-03
258	50,60106	2,05457E-03
259	48,89332	1,12455E-03
260	48,89331	1,124524E-03
261	49,67309	-4,436715E-04
262	49,6731	-4,437042E-04
263	49,04826	-1,901276E-03
264	49,04829	-1,901267E-03
265	49,38306	-3,549254E-03
266	49,38308	-3,549211E-03
267	49,37915	-4,945601E-03
268	49,37912	-4,945565E-03
269	49,67313	-6,11142E-03
270	49,67308	-6,111434E-03
271	49,70781	-7,021036E-03
272	49,70781	-7,021081E-03
273	49,79752	-7,817108E-03
274	49,79756	-7,817135E-03
275	50,35811	-8,134349E-03
276	50,35815	-8,134331E-03
277	49,94921	-8,341693E-03
278	49,94919	-8,341654E-03
279	51,54609	-7,708217E-03
280	51,54604	-7,708226E-03
281	51,75619	-5,856314E-03
282	51,75621	-5,856353E-03
283	51,65383	-3,982848E-03
284	51,65384	-3,982851E-03
285	51,05814	-2,632099E-03
286	51,05815	-2,632097E-03
287	50,89375	-1,826433E-03
288	50,89374	-1,826428E-03
289	50,27818	-1,571142E-03
290	50,27819	-1,571138E-03
291	48,60418	-2,911973E-03
292	48,60421	-2,911928E-03
293	48,30085	-5,608123E-03
294	48,30082	-5,608079E-03

295	53,1436	-5,079124E-03
296	53,14359	-5,079121E-03
297	52,70657	-1,529814E-03
298	52,70655	-1,529819E-03
299	52,06516	1,230876E-03
300	52,06519	1,23088E-03
301	49,29194	1,601083E-03
302	49,29195	1,601115E-03
303	50,88136	1,150622E-03
304	50,88133	1,150645E-03
305	51,62486	2,32582E-03
306	51,62482	2,325809E-03
307	52,52074	4,630375E-03
308	52,52076	4,630351E-03
309	50,47705	6,087285E-03
310	50,47707	6,087292E-03
311	50,77378	6,309099E-03
312	50,77377	6,309109E-03
313	51,48877	7,227043E-03
314	51,48877	7,227036E-03
315	50,73418	8,081113E-03
316	50,73417	8,081104E-03
317	49,88491	7,797217E-03
318	49,8849	7,797191E-03
319	49,09569	6,391427E-03
320	49,09572	6,391406E-03
321	49,81472	4,986294E-03
322	49,81474	4,986314E-03
323	49,40759	3,826107E-03
324	49,40759	3,826139E-03
325	48,86731	2,029113E-03
326	48,86726	2,02912E-03
327	50,65215	1,120968E-03
328	50,65215	1,120937E-03
329	51,12293	1,787248E-03
330	51,12294	1,787222E-03
331	50,66079	2,453461E-03
332	50,66078	2,453438E-03
333	51,33919	3,265419E-03
334	51,3392	3,265393E-03
335	49,62641	3,342021E-03
336	49,6264	3,342004E-03
337	49,13	1,886616E-03
338	49,13002	1,886608E-03
339	47,88289	-7,680046E-04
340	47,8829	-7,679874E-04
341	50,12968	-2,713093E-03
342	50,12966	-2,71309E-03
343	50,64598	-2,722656E-03
344	50,64595	-2,722673E-03
345	51,60652	-1,704952E-03
346	51,60655	-1,70498E-03
347	48,15064	-0,0024378
348	48,15068	-2,43778E-03
349	48,37046	-5,405755E-03
350	48,37044	-5,405716E-03
351	49,52019	-7,359941E-03
352	49,52017	-7,359939E-03
353	51,21505	-7,285501E-03
354	51,21503	-7,285512E-03
355	50,53581	-6,524703E-03
356	50,53583	-6,524704E-03
357	49,65473	-6,867046E-03
358	49,65474	-6,867037E-03
359	51,45226	-6,551072E-03
360	51,45225	-6,55106E-03

361	52,40762	-4,343891E-03
362	52,40762	-4,343892E-03
363	50,9506	-2,540514E-03
364	50,95058	-2,540536E-03

Trecho 11

x(DT) (s)	H(11 , 1 ,DT) (m)	Q(11 , 1 ,DT) (m3/s)
1	51,56517	0,02697
2	51,56517	0,02697
3	51,56517	0,02697
4	51,56517	0,02697
5	51,56517	0,02697
6	51,56517	0,02697
7	51,56517	0,02697
8	51,56517	2,697001E-02
9	51,56517	2,697001E-02
10	51,56517	0,02697
11	51,56517	0,02697
12	51,56517	0,02697
13	51,56517	0,02697
14	51,56517	0,02697
15	51,56517	0,02697
16	51,56518	2,697001E-02
17	51,56518	0,02697
18	51,56516	2,697001E-02
19	51,56516	0,02697
20	51,56517	0,02697
21	30,3061	1,215309E-02
22	30,3061	1,215309E-02
23	36,61724	-0,0116273
24	36,61724	-1,162729E-02
25	47,44804	-2,265752E-02
26	47,44804	-2,265751E-02
27	59,83742	-1,693072E-02
28	59,83743	-1,693071E-02
29	51,36701	-9,259345E-03
30	51,36699	-9,259347E-03
31	45,51578	-0,0118244
32	45,51578	-1,182441E-02
33	44,9865	-1,860427E-02
34	44,98652	-1,860428E-02
35	52,0826	-2,029371E-02
36	52,0826	-2,029371E-02
37	51,82653	-1,729317E-02
38	51,82652	-1,729318E-02
39	48,83226	-1,678681E-02
40	48,83225	-1,678683E-02
41	49,09425	-1,814438E-02
42	49,09425	-1,814439E-02
43	52,46607	-1,687152E-02
44	52,46607	-1,687152E-02
45	52,12223	-1,367177E-02
46	52,12223	-1,367177E-02
47	48,10459	-1,370693E-02
48	48,10459	-1,370693E-02
49	46,7161	-1,742284E-02
50	46,71609	-1,742285E-02
51	52,29816	-1,791193E-02
52	52,29817	-1,791194E-02
53	48,92186	-1,698074E-02
54	48,92187	-1,698073E-02
55	48,31546	-1,880652E-02
56	48,31545	-1,880651E-02
57	53,3271	-0,0173988
58	53,32709	-0,0173988

59	51,91256	-1,372813E-02
60	51,91257	-1,372813E-02
61	58,02397	-6,988709E-03
62	58,02396	-6,988705E-03
63	57,06805	3,019423E-03
64	57,06804	3,019422E-03
65	58,02185	1,289388E-02
66	58,02185	1,289387E-02
67	48,08944	1,604099E-02
68	48,08944	1,604098E-02
69	46,77285	1,138518E-02
70	46,77287	1,138518E-02
71	47,65457	6,705656E-03
72	47,65459	6,705678E-03
73	56,65928	9,06983E-03
74	56,65926	9,069853E-03
75	55,22591	1,649718E-02
76	55,2259	1,649718E-02
77	50,04539	1,887726E-02
78	50,04538	1,887726E-02
79	45,64281	1,454032E-02
80	45,64282	1,454032E-02
81	48,94227	9,830168E-03
82	48,94229	9,830191E-03
83	53,15011	0,0105296
84	53,15009	1,052963E-02
85	50,2885	1,206718E-02
86	50,28847	1,206717E-02
87	46,94954	9,257868E-03
88	46,94954	9,257841E-03
89	53,76016	9,039157E-03
90	53,76019	9,039156E-03
91	52,92568	1,289936E-02
92	52,92568	1,289938E-02
93	51,16038	1,476263E-02
94	51,16037	1,476264E-02
95	48,8712	1,372402E-02
96	48,8712	1,372401E-02
97	48,35613	0,0108431
98	48,35615	1,084311E-02
99	49,52921	8,575534E-03
100	49,52922	8,575556E-03
101	45,90614	4,675939E-03
102	45,90612	4,675955E-03
103	45,46253	-1,934283E-03
104	45,46252	-1,934285E-03
105	44,92435	-9,16575E-03
106	44,92436	-9,165753E-03
107	51,62761	-0,0118589
108	51,62763	-1,185888E-02
109	51,18661	-1,017843E-02
110	51,18659	-1,017841E-02
111	52,70321	-7,819489E-03
112	52,70316	-7,819517E-03
113	47,60123	-8,065136E-03
114	47,60124	-8,065181E-03
115	48,25041	-1,134208E-02
116	48,25043	-0,0113421
117	47,73946	-0,0143829
118	47,73947	-1,438291E-02
119	51,16994	-1,519666E-02
120	51,16992	-1,519666E-02
121	55,42744	-1,067956E-02
122	55,42743	-1,067958E-02
123	52,9663	-5,215276E-03
124	52,96631	-5,215301E-03

125	47,12485	-5,676384E-03
126	47,12487	-5,676389E-03
127	49,62024	-8,407114E-03
128	49,62027	-8,407091E-03
129	50,12416	-8,987057E-03
130	50,12413	-8,987035E-03
131	51,07359	-8,538533E-03
132	51,07358	-8,538535E-03
133	48,16786	-9,483094E-03
134	48,16785	-9,483105E-03
135	49,85348	-1,119714E-02
136	49,85351	-1,119714E-02
137	52,7038	-9,698037E-03
138	52,70378	-9,698023E-03
139	54,38774	-5,147873E-03
140	54,38772	-5,14788E-03
141	52,74168	-7,110476E-04
142	52,74167	-7,110678E-04
143	51,42346	1,623899E-03
144	51,42345	1,623865E-03
145	54,23572	4,991568E-03
146	54,23576	4,99155E-03
147	52,42297	8,972536E-03
148	52,42299	8,972554E-03
149	51,07898	1,063887E-02
150	51,07896	1,063888E-02
151	46,46683	8,101343E-03
152	46,46684	8,101346E-03
153	52,24194	6,52997E-03
154	52,24195	6,529978E-03
155	53,43872	9,807414E-03
156	53,43872	9,807429E-03
157	51,78195	1,261684E-02
158	51,78193	1,261684E-02
159	49,32159	1,244252E-02
160	49,3216	1,244251E-02
161	48,03254	9,711914E-03
162	48,03257	9,711929E-03
163	47,04925	5,541609E-03
164	47,04926	5,541647E-03
165	50,54012	3,248618E-03
166	50,54008	3,248636E-03
167	51,68982	4,211156E-03
168	51,68978	4,211119E-03
169	53,14014	6,961465E-03
170	53,14016	6,961417E-03
171	50,35247	8,688113E-03
172	50,35247	8,68809E-03
173	49,9927	8,195866E-03
174	49,99272	8,19586E-03
175	49,10303	6,855374E-03
176	49,103	6,85536E-03
177	50,86988	6,178157E-03
178	50,86988	6,178117E-03
179	48,19033	4,866872E-03
180	48,19036	4,866855E-03
181	47,12055	9,92715E-04
182	47,12056	9,927278E-04
183	47,55658	-3,284035E-03
184	47,55659	-3,284011E-03
185	49,83835	-5,624692E-03
186	49,83834	-5,624668E-03
187	51,04458	-5,502112E-03
188	51,04456	-5,502104E-03
189	47,12711	-7,282445E-03
190	47,12711	-7,282452E-03

191	50,4715	-9,364605E-03
192	50,4715	-9,364619E-03
193	51,28355	-8,517371E-03
194	51,28357	-8,517373E-03
195	50,28108	-7,846083E-03
196	50,28107	-7,846071E-03
197	48,07648	-9,421518E-03
198	48,07648	-9,42151E-03
199	50,02386	-1,108171E-02
200	50,02383	-1,108173E-02
201	52,57325	-9,563514E-03
202	52,57327	-9,563536E-03
203	54,5295	-5,00913E-03
204	54,5295	-5,009141E-03
205	50,99865	-1,691069E-03
206	50,99865	-1,691077E-03
207	48,66843	-2,485781E-03
208	48,66844	-2,485778E-03
209	47,97106	-5,373639E-03
210	47,97107	-5,37362E-03
211	50,36402	-7,014669E-03
212	50,36404	-7,014634E-03
213	50,2632	-7,03636E-03
214	50,26316	-7,036338E-03
215	52,11329	-5,837095E-03
216	52,11329	-5,837098E-03
217	51,06205	-4,130252E-03
218	51,06208	-4,130231E-03
219	52,72166	-2,027028E-03
220	52,72166	-2,026986E-03
221	50,722	-1,898129E-04
222	50,72197	-1,897959E-04
223	52,48036	1,474517E-03
224	52,48032	1,47448E-03
225	53,00079	4,715202E-03
226	53,00082	4,715156E-03
227	50,23141	6,328778E-03
228	50,23147	6,328793E-03
229	50,61858	6,266973E-03
230	50,61858	6,267025E-03
231	51,24843	6,911959E-03
232	51,24839	6,911977E-03
233	51,92463	8,441319E-03
234	51,92463	8,441303E-03
235	50,2822	9,234246E-03
236	50,28222	9,23424E-03
237	50,10337	8,749797E-03
238	50,10338	8,749806E-03
239	49,74133	7,909683E-03
240	49,74134	7,909701E-03
241	50,52953	7,401027E-03
242	50,52951	7,401037E-03
243	48,30791	5,90116E-03
244	48,30794	5,901169E-03
245	47,77617	2,54412E-03
246	47,77615	2,544138E-03
247	50,12854	5,083833E-04
248	50,12852	5,083785E-04
249	53,65189	2,575179E-03
250	53,65189	2,575158E-03
251	52,44803	6,225749E-03
252	52,44803	6,225725E-03
253	49,73189	7,070255E-03
254	49,73191	7,070246E-03
255	47,14077	4,219964E-03
256	47,14076	4,219965E-03

257	50,60107	2,054581E-03
258	50,60106	2,054569E-03
259	48,89332	1,124554E-03
260	48,89331	1,124527E-03
261	49,67309	-4,436732E-04
262	49,6731	-4,436998E-04
263	49,04826	-1,901275E-03
264	49,04829	-1,901269E-03
265	49,38306	-3,549257E-03
266	49,38308	-3,549214E-03
267	49,37915	-0,0049456
268	49,37912	-4,945567E-03
269	49,67313	-6,111416E-03
270	49,67308	-6,111437E-03
271	49,70781	-7,021032E-03
272	49,70781	-7,02108E-03
273	49,79752	-7,817111E-03
274	49,79756	-7,817132E-03
275	50,35811	-8,134353E-03
276	50,35815	-8,134326E-03
277	49,94921	-8,34169E-03
278	49,94919	-8,34165E-03
279	51,54609	-7,708213E-03
280	51,54604	-7,708224E-03
281	51,75619	-5,856317E-03
282	51,75621	-5,856353E-03
283	51,65383	-3,982845E-03
284	51,65384	-3,982853E-03
285	51,05814	-0,0026321
286	51,05815	-2,632094E-03
287	50,89375	-1,826431E-03
288	50,89374	-1,826425E-03
289	50,27818	-1,571143E-03
290	50,27819	-1,571135E-03
291	48,60418	-2,91197E-03
292	48,60421	-2,911933E-03
293	48,30085	-5,60812E-03
294	48,30082	-5,608082E-03
295	53,1436	-5,079128E-03
296	53,14359	-5,079119E-03
297	52,70657	-1,52981E-03
298	52,70655	-1,529821E-03
299	52,06516	1,230872E-03
300	52,06519	1,230877E-03
301	49,29194	1,601083E-03
302	49,29195	1,601118E-03
303	50,88136	1,150621E-03
304	50,88133	1,150646E-03
305	51,62486	2,325823E-03
306	51,62482	2,325806E-03
307	52,52074	4,630376E-03
308	52,52076	4,630352E-03
309	50,47705	6,087288E-03
310	50,47707	6,087293E-03
311	50,77378	6,309101E-03
312	50,77377	6,309109E-03
313	51,48877	7,22704E-03
314	51,48877	7,227036E-03
315	50,73418	8,081112E-03
316	50,73417	8,081104E-03
317	49,88491	7,797217E-03
318	49,8849	7,797194E-03
319	49,09569	6,391423E-03
320	49,09572	6,39141E-03
321	49,81472	4,986298E-03
322	49,81474	4,986316E-03

323	49,40759	3,826105E-03
324	49,40759	3,826138E-03
325	48,86731	2,029114E-03
326	48,86726	2,02912E-03
327	50,65215	1,12097E-03
328	50,65215	1,120937E-03
329	51,12293	1,787248E-03
330	51,12294	1,787218E-03
331	50,66079	2,453464E-03
332	50,66078	2,453439E-03
333	51,33919	3,265416E-03
334	51,3392	3,265394E-03
335	49,62641	3,342021E-03
336	49,6264	3,342001E-03
337	49,13	1,886617E-03
338	49,13002	1,886611E-03
339	47,88289	-7,68002E-04
340	47,8829	-7,679892E-04
341	50,12968	-2,713095E-03
342	50,12966	-2,713087E-03
343	50,64598	-2,722652E-03
344	50,64595	-2,722676E-03
345	51,60652	-1,704952E-03
346	51,60655	-1,704979E-03
347	48,15064	-2,437798E-03
348	48,15068	-2,437776E-03
349	48,37046	-5,405755E-03
350	48,37044	-5,40572E-03
351	49,52019	-7,359944E-03
352	49,52017	-7,359935E-03
353	51,21505	-7,285498E-03
354	51,21503	-7,28551E-03
355	50,53581	-6,524702E-03
356	50,53583	-6,524707E-03
357	49,65473	-6,867047E-03
358	49,65474	-6,867034E-03
359	51,45226	-6,551075E-03
360	51,45225	-6,551065E-03
361	52,40762	-4,34389E-03
362	52,40762	-4,343889E-03
363	50,9506	-2,540513E-03
364	50,95058	-2,540533E-03

x(DT) (s)	H(11 , 2 ,DT) (m)	Q(11 , 2 ,DT) (m3/s)
1	50,40723	0,02697
2	50,40723	0,02697
3	50,40723	0,02697
4	50,40723	0,02697
5	50,40723	0,02697
6	50,40723	0,02697
7	50,40723	2,697001E-02
8	50,40723	2,697001E-02
9	50,40723	2,697001E-02
10	50,40723	2,697001E-02
11	50,40723	0,02697
12	50,40723	0,02697
13	50,40723	0,02697
14	50,40723	2,697001E-02
15	50,40723	0,02697
16	50,40723	0,02697
17	50,40723	2,697001E-02
18	50,40723	2,697001E-02
19	50,40723	0,02697
20	50,40723	2,696999E-02
21	50,40723	0,02697

22	50,40723	-2,020645E-03
23	50,40723	-2,020634E-03
24	50,40723	-2,108849E-02
25	50,40723	-2,108848E-02
26	50,40723	-2,415039E-02
27	50,40723	-2,415038E-02
28	50,40723	-1,004013E-02
29	50,40723	-1,004012E-02
30	50,40723	-8,495281E-03
31	50,40723	-8,495296E-03
32	50,40723	-1,507846E-02
33	50,40723	-1,507847E-02
34	50,40723	-2,199832E-02
35	50,40723	-2,199832E-02
36	50,40723	-1,866909E-02
37	50,40723	-1,866909E-02
38	50,40723	-1,597216E-02
39	50,40723	-1,597217E-02
40	50,40723	-1,757186E-02
41	50,40723	-1,757188E-02
42	50,40723	-1,869421E-02
43	50,40723	-1,869422E-02
44	50,40723	-1,512075E-02
45	50,40723	-1,512075E-02
46	50,40723	-1,226907E-02
47	50,40723	-1,226907E-02
48	50,40723	-1,510334E-02
49	50,40723	-1,510334E-02
50	50,40723	-1,965864E-02
51	50,40723	-1,965865E-02
52	50,40723	-1,623804E-02
53	50,40723	-1,623803E-02
54	50,40723	-1,769608E-02
55	50,40723	-1,769606E-02
56	50,40723	-0,019872
57	50,40723	-0,019872
58	50,40723	-1,502787E-02
59	50,40723	-1,502788E-02
60	50,40723	-1,246986E-02
61	50,40723	-1,246986E-02
62	50,40723	-1,625891E-03
63	50,40723	-1,625888E-03
64	50,40723	7,651687E-03
65	50,40723	7,65168E-03
66	50,40723	1,801656E-02
67	50,40723	1,801656E-02
68	50,40723	1,414007E-02
69	50,40723	1,414006E-02
70	50,40723	8,708314E-03
71	50,40723	8,708325E-03
72	50,40723	4,737247E-03
73	50,40723	4,737281E-03
74	50,40723	1,333604E-02
75	50,40723	1,333605E-02
76	50,40723	1,955368E-02
77	50,40723	1,955368E-02
78	50,40723	1,822969E-02
79	50,40723	1,822968E-02
80	50,40723	1,098509E-02
81	50,40723	0,0109851
82	50,40723	8,701918E-03
83	50,40723	8,701959E-03
84	50,40723	1,231829E-02
85	50,40723	0,0123183
86	50,40723	1,182286E-02
87	50,40723	1,182283E-02

88	50,40723	6,752868E-03
89	50,40723	6,752845E-03
90	50,40723	1,128539E-02
91	50,40723	1,128541E-02
92	50,40723	1,447003E-02
93	50,40723	1,447004E-02
94	50,40723	1,504575E-02
95	50,40723	1,504574E-02
96	50,40723	1,244448E-02
97	50,40723	1,244447E-02
98	50,40723	0,0092831
99	50,40723	9,283119E-03
100	50,40723	7,881989E-03
101	50,40723	7,882015E-03
102	50,40723	1,514562E-03
103	50,40723	1,514566E-03
104	50,40723	-5,376432E-03
105	50,40723	-5,376439E-03
106	50,40723	-1,289393E-02
107	50,40723	-1,289393E-02
108	50,40723	-0,0108523
109	50,40723	-1,085227E-02
110	50,40723	-9,520276E-03
111	50,40723	-9,520271E-03
112	50,40723	-6,151422E-03
113	50,40723	-6,151482E-03
114	50,40723	-9,948661E-03
115	50,40723	-9,948694E-03
116	50,40723	-1,270258E-02
117	50,40723	-1,270259E-02
118	50,40723	-1,601273E-02
119	50,40723	-1,601273E-02
120	50,40723	-1,440884E-02
121	50,40723	-1,440886E-02
122	50,40723	-7,054083E-03
123	50,40723	-7,054111E-03
124	50,40723	-3,401503E-03
125	50,40723	-3,401521E-03
126	50,40723	-7,928352E-03
127	50,40723	-7,928343E-03
128	50,40723	-8,877198E-03
129	50,40723	-8,877159E-03
130	50,40723	-9,094737E-03
131	50,40723	-9,094733E-03
132	50,40723	-7,993213E-03
133	50,40723	-7,993218E-03
134	50,40723	-1,094409E-02
135	50,40723	-0,0109441
136	50,40723	-1,144398E-02
137	50,40723	-1,144396E-02
138	50,40723	-7,993049E-03
139	50,40723	-7,993043E-03
140	50,40723	-2,344183E-03
141	50,40723	-2,344198E-03
142	50,40723	9,165523E-04
143	50,40723	9,165262E-04
144	50,40723	2,329253E-03
145	50,40723	2,329208E-03
146	50,40723	7,63226E-03
147	50,40723	7,632267E-03
148	50,40723	1,028812E-02
149	50,40723	1,028815E-02
150	50,40723	1,098148E-02
151	50,40723	1,098148E-02
152	50,40723	5,28219E-03
153	50,40723	5,282194E-03

154	50,40723	7,761397E-03
155	50,40723	7,761412E-03
156	50,40723	1,181355E-02
157	50,40723	1,181356E-02
158	50,40723	1,339836E-02
159	50,40723	1,339834E-02
160	50,40723	1,151409E-02
161	50,40723	1,151409E-02
162	50,40723	7,952181E-03
163	50,40723	7,952214E-03
164	50,40723	3,167127E-03
165	50,40723	3,167171E-03
166	50,40723	3,329527E-03
167	50,40723	3,32952E-03
168	50,40723	5,085405E-03
169	50,40723	5,085342E-03
170	50,40723	8,812447E-03
171	50,40723	8,812417E-03
172	50,40723	8,566194E-03
173	50,40723	8,566176E-03
174	50,40723	7,832424E-03
175	50,40723	7,832431E-03
176	50,40723	5,894248E-03
177	50,40723	5,894211E-03
178	50,40723	6,458261E-03
179	50,40723	6,45822E-03
180	50,40723	3,295478E-03
181	50,40723	3,295485E-03
182	50,40723	-1,299094E-03
183	50,40723	-1,299075E-03
184	50,40723	-5,258884E-03
185	50,40723	-5,258854E-03
186	50,40723	-5,986083E-03
187	50,40723	-5,986064E-03
188	50,40723	-5,024312E-03
189	50,40723	-5,024315E-03
190	50,40723	-9,509743E-03
191	50,40723	-9,509753E-03
192	50,40723	-9,222507E-03
193	50,40723	-9,222523E-03
194	50,40723	-7,826115E-03
195	50,40723	-0,0078261
196	50,40723	-7,865704E-03
197	50,40723	-7,865694E-03
198	50,40723	-1,094749E-02
199	50,40723	-1,094748E-02
200	50,40723	-1,121265E-02
201	50,40723	-1,121269E-02
202	50,40723	-7,952387E-03
203	50,40723	-7,952399E-03
204	50,40723	-2,108201E-03
205	50,40723	-2,108212E-03
206	50,40723	-1,275695E-03
207	50,40723	-1,275703E-03
208	50,40723	-3,690816E-03
209	50,40723	-3,690805E-03
210	50,40723	-7,039535E-03
211	50,40723	-7,039509E-03
212	50,40723	-6,990192E-03
213	50,40723	-6,990144E-03
214	50,40723	-7,08181E-03
215	50,40723	-7,081816E-03
216	50,40723	-4,61022E-03
217	50,40723	-4,610223E-03
218	50,40723	-3,654938E-03
219	50,40723	-3,654893E-03

220	50,40723	-4,093828E-04
221	50,40723	-4,093419E-04
222	50,40723	2,961284E-05
223	50,40723	2,960539E-05
224	50,40723	2,917011E-03
225	50,40723	2,916944E-03
226	50,40723	6,498166E-03
227	50,40723	6,498144E-03
228	50,40723	6,161798E-03
229	50,40723	6,16185E-03
230	50,40723	6,370698E-03
231	50,40723	6,37075E-03
232	50,40723	7,445243E-03
233	50,40723	7,445228E-03
234	50,40723	9,419837E-03
235	50,40723	9,419818E-03
236	50,40723	9,052497E-03
237	50,40723	9,052505E-03
238	50,40723	8,453076E-03
239	50,40723	8,453087E-03
240	50,40723	7,376153E-03
241	50,40723	7,37618E-03
242	50,40723	7,425495E-03
243	50,40723	7,425488E-03
244	50,40723	4,399363E-03
245	50,40723	4,399389E-03
246	50,40723	7,031677E-04
247	50,40723	7,031789E-04
248	50,40723	3,138599E-04
249	50,40723	3,138413E-04
250	50,40723	4,829251E-03
251	50,40723	4,829225E-03
252	50,40723	7,605117E-03
253	50,40723	7,605095E-03
254	50,40723	6,544102E-03
255	50,40723	6,544106E-03
256	50,40723	1,923584E-03
257	50,40723	1,92358E-03
258	50,40723	2,184999E-03
259	50,40723	2,18498E-03
260	50,40723	6,800568E-05
261	50,40723	6,796843E-05
262	50,40723	-9,551304E-04
263	50,40723	-9,551453E-04
264	50,40723	-2,844423E-03
265	50,40723	-2,844393E-03
266	50,40723	-4,249092E-03
267	50,40723	-4,249036E-03
268	50,40723	-5,635004E-03
269	50,40723	-5,634991E-03
270	50,40723	-6,581621E-03
271	50,40723	-6,581673E-03
272	50,40723	-7,45381E-03
273	50,40723	-7,453857E-03
274	50,40723	-8,174256E-03
275	50,40723	-8,174255E-03
276	50,40723	-8,095172E-03
277	50,40723	-8,095118E-03
278	50,40723	-8,583712E-03
279	50,40723	-8,583686E-03
280	50,40723	-6,84854E-03
281	50,40723	-6,848588E-03
282	50,40723	-4,878085E-03
283	50,40723	-4,878105E-03
284	50,40723	-3,096405E-03
285	50,40723	-3,096401E-03

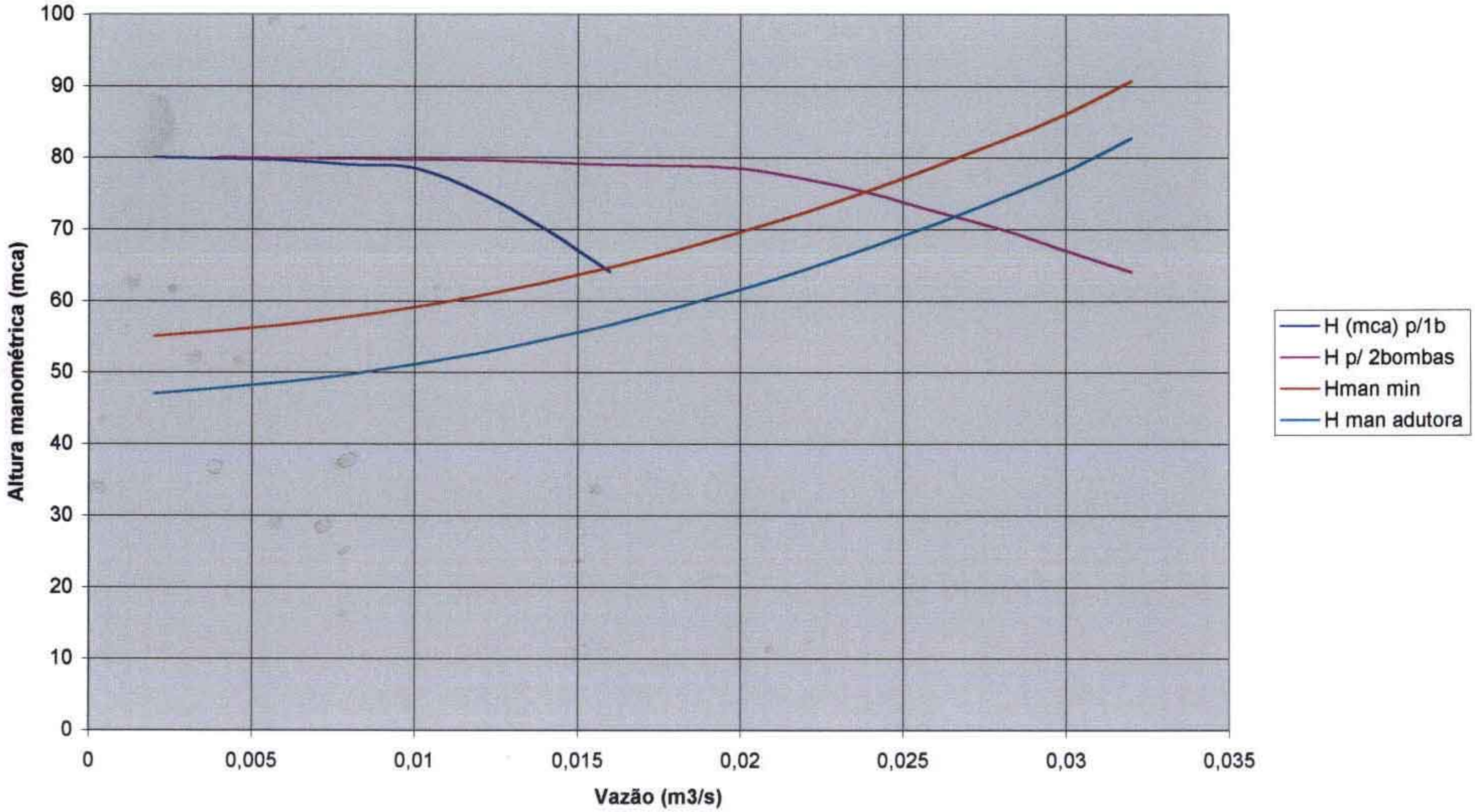
286	50,40723	-2,170749E-03
287	50,40723	-2,170737E-03
288	50,40723	-1,483641E-03
289	50,40723	-1,483641E-03
290	50,40723	-1,65835E-03
291	50,40723	-1,658331E-03
292	50,40723	-4,159232E-03
293	50,40723	-4,159176E-03
294	50,40723	-7,041305E-03
295	50,40723	-7,041286E-03
296	50,40723	-3,14334E-03
297	50,40723	-3,14334E-03
298	50,40723	7,535568E-05
299	50,40723	7,533333E-05
300	50,40723	2,384712E-03
301	50,40723	2,384745E-03
302	50,40723	8,209167E-04
303	50,40723	8,209576E-04
304	50,40723	1,479604E-03
305	50,40723	1,479611E-03
306	50,40723	3,168468E-03
307	50,40723	3,168431E-03
308	50,40723	6,079633E-03
309	50,40723	6,079626E-03
310	50,40723	6,09484E-03
311	50,40723	6,094859E-03
312	50,40723	6,520413E-03
313	50,40723	6,52041E-03
314	50,40723	7,922889E-03
315	50,40723	7,922885E-03
316	50,40723	8,236528E-03
317	50,40723	8,236513E-03
318	50,40723	7,365723E-03
319	50,40723	7,365689E-03
320	50,40723	5,431995E-03
321	50,40723	5,432003E-03
322	50,40723	4,545752E-03
323	50,40723	4,545782E-03
324	50,40723	3,11314E-03
325	50,40723	3,113181E-03
326	50,40723	9,51272E-04
327	50,40723	9,512422E-04
328	50,40723	1,290277E-03
329	50,40723	1,29024E-03
330	50,40723	2,282523E-03
331	50,40723	2,282501E-03
332	50,40723	2,623506E-03
333	50,40723	2,623477E-03
334	50,40723	3,903132E-03
335	50,40723	3,903117E-03
336	50,40723	2,785419E-03
337	50,40723	2,785393E-03
338	50,40723	9,924774E-04
339	50,40723	9,924849E-04
340	50,40723	-2,526734E-03
341	50,40723	-2,526715E-03
342	50,40723	-2,898376E-03
343	50,40723	-2,898376E-03
344	50,40723	-2,548024E-03
345	50,40723	-2,548072E-03
346	50,40723	-8,658575E-04
347	50,40723	-8,65865E-04
348	50,40723	-4,003977E-03
349	50,40723	-4,003927E-03
350	50,40723	-6,792901E-03
351	50,40723	-6,792878E-03

352	50,40723	-7,918083E-03
353	50,40723	-7,918087E-03
354	50,40723	-6,663585E-03
355	50,40723	-6,663603E-03
356	50,40723	-6,387852E-03
357	50,40723	-6,387844E-03
358	50,40723	-7,339194E-03
359	50,40723	-7,339175E-03
360	50,40723	-5,775103E-03
361	50,40723	-5,775101E-03
362	50,40723	-2,928745E-03
363	50,40723	-2,928748E-03
364	50,40723	-2,154637E-03

II – CURVA CARACTERÍSTICA DA BOMBA ASSOCIADA

000227

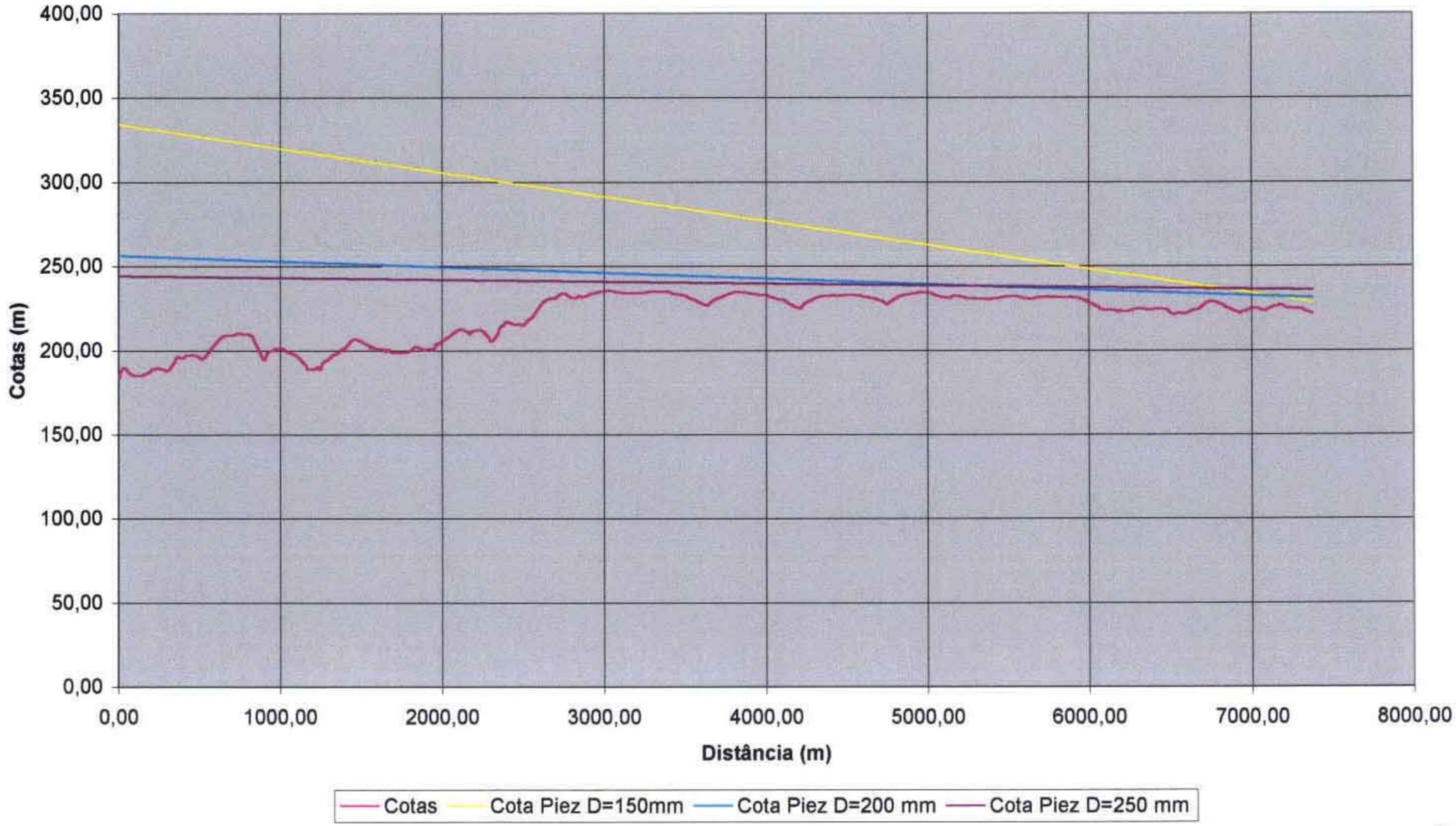
Curvas características associadas



000228

III – PERFIL PIEZOMÉTRICO PARA DIVERSOS DIÂMETROS

Perfil Piezométrico da adutora de Quinim para diversos diâmetros



IV – CRONOGRAMA FÍSICO DE IMPLANTAÇÃO DA OBRA

000231

Cronograma Físico de Implantação do sistema de transposição do Açude Quixeramobim para o riacho Quinim

Discriminação	Mês 1	Mês 2	Mês 3	Mês 4	Total (%)
Obras Civis e montagem do sistema adutor					
Instalação e Canteiro de Obras	100				**100**
Obras Civis de implantação da tubulação		30	40	30	**100**
Obras civis da captação			100		**100**
Montagem dos equipamentos hidromecânicos da captação			100		**100**
Desmobilização				100	**100**
Fornecimento de tubos, peças, válvulas e acessórios					
Fornecimento de tubos, peças, conexões e acesssórios da tubulação	30	70			**100**
Fornecimento de equipamentos hidromecânicos da adutora	30	70			**100**

000232

V – DOCUMENTOS QUE COMPÕEM O RELATÓRIO GERAL

000233

TOMO I

VOLUME I – RELATÓRIO GERAL

VOLUME II – ESPECIFICAÇÕES TÉCNICAS

VOLUME III – PLANTAS

VOLUME IV – CADERNETAS DE CAMPO

000234

VI – TABELAS E PROPOSTAS DE PREÇOS DE FORNECEDORES DE EQUIPAMENTOS E MATERIAIS ESPECÍFICOS

BETTA
HIDROTURBINAS

À
TSA
Fortaleza/CE

Atenção Sr Júlio César

Ref Conjunto Turbo-Bomba
Projeto Quixeramobim – Riacho Quinim
Orçamento nº. 020590

Prezado Senhor,

Apresentamos para o conhecimento e análise de V Sa. nossa proposta técnico/comercial de fornecimento do equipamento acima referenciado·

PROJETO QUIXERAMOBIM - CE

TURBOBOMBA – PROJETO DE VIABILIDADE

1. CARACTERISTICAS TÉCNICAS DO APROVEITAMENTO

. Potencial Hídrico: Riacho Quinim,

. Abastecimento de água para Agrovila;

. Carga hidráulica para a Turbina com 95% de permanência – 7 m.c.a ;

. Vazão disponível para a Turbina com 90% de permanência – 420 l /s

. Altura manométrica total exigida na saída da Bomba – 80 m.c.a.

. Tubulação de recalque· – comprimento 7 380 m
diâmetro – 200 mm
material - PVC Rígido

2 CARACTERÍSTICAS TÉCNICAS DO CONJUNTO TURBOBOMBA

2.1 Vazão Bombeada - **16** l/s (57,6 m^3/h)
Pressão saída bomba - **80** m.c.a.
Bomba tipo centrífuga, Modelo - Multi-estágios / 3 estágios

Turbina Hidráulica Mod. Betta - **4045**
Vazão máxima turbinada - 420 l/s
Diâmetro tubo adução Turbina - 400 mm
Potência disponível eixo Bomba - 27 c v

000236

BETTA HIDROTURBINAS INDÚSTRIA E COMÉRCIO LTDA.
Rua Alfredo Tosi, 1600 - Cx. Posta: 278 - CEP 14400-970 - FRANCA - SP - Tel. (0xx16) 3702-5522 - Fax (0xx16) 3702-6891
e-mail betta@bettahidroturbinas.com.br - site www.bettahidroturbinas.com.br

BETTA
HIDROTURBINAS

3. CONDIÇÕES COMERCIAIS

3.1. PREÇO DO CONJUNTO TURBOBOMBA, COMPOSTO POR .

. Turbina Hidráulica com controle de vazão por registro incorporado,
. Bomba de recalque do tipo centrífuga,
. Multiplicação de rotação por polias e correias,
. Chassi metálico para receber o conjunto,

R$ 22 980,00 (Vinte e Dois Mil, Novecentos e Oitenta Reais)

Observações :

1. Preços : posto fábrica Franca/SP,
2. ICMS : concedido desconto referente a diferença de alíquota do estado de destino,
3. Prazo de Entrega . 60 dias, a partir da data de confirmação do pedido;
4 Garantia dos Equipamentos 12 meses, a partir da data de entrega fábrica,
5 Validade da Proposta . 10 (dez) dias,
6 Supervisão técnica ou montagem do equipamento, não inclusos nos preços;

Colocamo-nos à vossa inteira disposição, para quaisquer outras informações que se fizerem necessárias

Atenciosamente,

Betta Hidroturbinas Ind. e Com Ltda.
Rodolfo Segalla
Depto Vendas

000237

BETTA
HIDROTURBINAS

CONJUNTO TURBO BOMBA

CARACTERÍSTICAS TÉCNICAS DA TURBINA HIDRÁULICA TIPO MICHELL BANKI E DA BOMBA DE RECALQUE.

- **Turbina Hidráulica** de acionamento, tipo Michell Banki, fluxo cruzado e duplo efeito, com rotor horizontal.

  . Controle da vazão de água pela turbina Hidráulica, por registro incorporado à Turbina Hidráulica

  . Rotor da Turbina Hidráulica tipo tambor, construção soldada com discos em aço carbono ASTM-A-36, eixo horizontal passante trefilado, em aço carbono SAE 1045 e pás em aço carbono estampadas.

  . Eixo do Rotor da Turbina, é apoiado em rolamentos fixos de esferas ou rolos, montados em mancais fundidos fixados na laterais da caixa da Turbina

  . Caixa da Turbina fundida em ferro fundido cinzento ou de construção soldada em chapa aço carbono ASTM-A-36

  . Transmissão de força e multiplicação de rotação por polias e correias

- **Bomba Hidráulica de Recalque**, tipo centrífuga ou de deslocamento positivo, de três pistões, definidas em função do projeto

  . Bomba tipo deslocamento positivo, de três pistões, com pistões trabalhando verticalmente, acionados através de bielas e virabrequim, alojados em cárter com lubrificação à óleo.
  Pistão em ferro fundido nodular, com reparo em poliuretano de alta densidade, trabalhando em camisa de cerâmica retificada

  . **Bomba centrífuga**, tipo mancalizada, de mono ou múltiplos estágios, rotor em ferro fundido cinzento ou bronze, dependendo do líquido a ser bombeado.

- **Chassis Metálico**

  . O conjunto Turbo Bomba é montado sobre um chassis fabricado com perfilados metálicos, formando um conjunto compacto e de fácil transporte

VILLAGE

V GRANDE MT 13 DE JUNHO DE 2002

A C

SR JULIO CESAR

REF ORÇAMENTO NRO 2022

EQUIPAMENTOS A SEREM ENERGIZADOS

01 LAMPADA 20 W
01 FURADEIRA

EQUIPAMENTOS NECESSÁRIOS

01 PAINEL 75 W	R$	1 700,00
01 CONTROLADOR 12 W	R$	320,00
01 SUPORTE P/ PAINEIS	R$	180,00
01 INVERSOR 800 W/MOD 1000	R$	2 300,00
FIOS/TERMINAIS/CABOS ETC	R$	80,00

TOTAL R$ 4 580,00

CONDIÇÕES PAGTO - A VISTA

PRAZO ENTREGA - 15 DIAS

VALIDADE DA PROPSTA - 10 DIAS

OBS 01 BATERIA DE 150 AMP NÃO INCLUSA
FRETE POR CONTA DO CLIENTE

000239

0851617888

Fone Fax (65) 684-3412 / 684-6335
e-mail villacc@vsp.com.br

TIGRE

Proposta de Fornecimento

Data 05/06/2002 Hora 14 57 06

Pagina 1

Sujeito a Aceitação da Fornecedora

IFV

Identificação
05/06/2002 15.46

Destinatário 73 520 876/0001-32
TSA- PROJETOS DE ENGENHARIA LTDA
AV PADRE ANTONIO TOMAS 2400 SALAS 1305
60140-160 FORTALEZA - CE

A/C Sr(a) JULIO CEZAR

Conforme sua solicitacão estamos enviando proposta de fornecimento para vossa apreciacão

Condição de Pagamento 30 DIAS **Preço Referencial.** Dia **Tipo Pedido** VE

CGC de Entrega 73 520 876/0001-32 **Data Provável de Faturamento** 21/06/2002

Endereço de Entrega

Cidade de Entrega -

Centro de Distribuição: 0170 - DEP TTC CAMACARI **05/06/2002 - 15:47**

Qtde	Fatur	Saldo	UM	Código	Descrição do Produto	Unit Liq. s/ IPI	Valor do Item
1	0	1	PC	10800560	TUBO PVC 1MPA JEI DN200 VINILFER	271 209	271 21
1	0	1	PC	23190605	EXTREMIDADE PVC JE PF DE 60 PBA	16 004	16 00
1	0	1	PC	55064423	CURVA 22 30 BB JE F F DN200	102 503	102 50
1	0	1	PC	55064520	CURVA 45 BB JE F F DN200	114 127	114 13
1	0	1	PC	55064628	CURVA 90 BB JE F F DN200	168 087	168 09
1	0	1	PC	55064725	EXTREMIDADE BF JE F F DN200	103 684	103 68
1	0	1	PC	55066434	TE RED BBB JE F F PBA DN200X50	112 684	112 68

Total Liquido	Sub Tributária	ICMS deduzido:	Total IPI	Total Geral
888,29	0,00	0,00	59,57	947,86
Saldo Liquido			**IPI**	**Saldo Geral**
888,29			59.57	947,86

Aguardamos **Confirmação. Obrigado**

Agente Comercial HENRIQUE - PROMO

000240

ATT SR. JÚLIO CÉSAR

ORCAMENTO NUMERO.:[illegible]NO16828 DATA:04/06/02

Cliente....:TSA PROJETOS DE ENGENHARIA LTD Codigo...:000000
Endereco...:
Cidade.....: Bairro....:
Estado.....:CE Cep.....:
CGC/CPF....: CGF/R.G...:
OBS.....:
:

QTD	UN	CODIG	DESCRICAO		PR.UNITARIO	PR. TOTAL
1,00	UN	10296	TARHA CONP 1000KG 3NTS ELO 1203NT	BERG	345,76	345,76
1,00	UN	19340	CARRO TROLI MAN 1 TON 2705.90	BERG	238,00	238,00

TOTAL DO ORCAMENTO --> 583,76

<<<<<< SUJEITO A ALTERACAO DE PRECO, APROVACAO DE CREDITO E DISPONIBILIDADE DO ESTOQUE >>>>>>

VENDEDOR.....:LINDBERG

COND DE PAGAMENTO: 1+2 (ENT + 30/60 DD)

VALIDADE DA PROPOSTA: 10 DIAS

Apiguana Máquinas & Ferramentas Ltda

000241

KÖNNEN
Rua Tomos Câmara 421
Aldeota CEP 60150 060
Fone :(0xx85)261 8077
Fax (0xx85)261 8076
Fortaleza CE Brasil
E-MAIL konnen@konnen.eng.br

Fax **FX097/02** Data **04.06.02**

Destino **TSA**

AT . **SR. JÚLIO CESÁR** **(AGF)**

Conforme solicitação, apresentamos nossa melhor condição comercial para fornecimento dos materiais abaixo

ITEM	QDE	UN	DESCRIÇÃO	PR. UNIT
01	1	PC	Ventosa com flanges de FoFo VTF DN 50MM	589 42
02	1	PC	Registro de gaveta de FoFo com flanges DN 50MM	428,78
03	1	PC	Tê 200 x 50 c/ flanges	463,00
TOTAL				**1.481,20**

⇒ **PRAZO DE ENTREGA**. 30 dias
⇒ **PAGAMENTO**. 30 Dias
⇒ **IMPOSTOS** Inclusos IPI – 8%
⇒ **LOCAL DE ENTREGA:** Cif – Fortaleza
⇒ **MARCA** SAINT – GOBAIN (NOVA RAZÃO SOCIAL DA BARBARÁ)
⇒ **VALIDADE DA PROPOSTA**: 10 dias

Cordialmente,
Ariadjana Freitas

000242

Contech.

Para	Sr. Julio Cesar
Empresa	TSA PROJETOS ENGENHARIA
Fone	(85) 261-7880
Fax	(85) 261-7880
e-mail	
De	Anselmo Carvalho – anselmo@contechind.com.br
Empresa	CONTECH
Fone / Fax	Tronco (0XX) (11) 5542-1944 / 5535-4717
e-mail	contech@contechind.com.br
Site	www.contechind.com.br
Representante.	
Data	13/06/02
N° de Páginas	03

Comentários: N/ Proposta N° 2346/02-CT

Em atenção à sua solicitação. estamos enviando nossa proposta comercial contendo nossas melhores condições para o fornecimento de

Item	Qtde.	Descrição		Preço Unitário
01	01	**Medidor de Vazão Tipo Turbina de Inserção 4"**		
		Modelo	**IP201 4"**	
		Fluido	Agua	
		Temperatura fluido	Ambiente	
		Pressão	5 Kgf/cm²	
		Range	0.9 a 9,9 m/s	
		Vazão de trabalho	Informar	
		Conexão ao processo	Luva para ser soldada na tubulação de 4"	
		Material do Rotor	Kynar	
		Material do corpo e conexão	AISI 304	
		Invólucro	Nema 4	
		Com valvula retratil para manutenção		
		Modulo Eletrônico Microprocessado DMY-2030TOT		
		Totalizador + Indicação Instantânea		
		Alimentação	90 a 240 Vac	
		Sinal de saída	Não	
		Involucro	Nema 4	R$ 2 930,00
01	01	**Medidor de Vazão Tipo Turbina de Inserção 28"**		
		Modelo	**IP201 28"**	
		Fluido	Água	
		Temperatura fluido	Ambiente	
		Pressão	5 Kgf/cm²	
		Range	0,9 a 9,9 m/s	
		Vazão de trabalho	Informar	
		Conexão ao processo	Luva para ser soldada na tubulação de 28"	
		Material do Rotor	Kynar	

Material do corpo e conexão AISI 304
Involucro Nema 4
Com valvula retrátil para manutenção
Modulo Eletrônico Microprocessado DMY-2030TOT
Totalizador + Indicação Instantânea
Alimentação 90 a 240 Vac
Sinal de saída Não
Invólucro Nema 4

R$ 3 450,00

Condições Gerais de Fornecimento

1) Prazo de Entrega:
Até 15 dias após a colocação do Pedido de Compra ou após aprovação dos desenhos, caso estes requeridos.

2) Condições de Pagamentos:
21 ddl + 3,5% custo financeiro

3) Impostos:
ICMS 7 % incluso IPI Isento
OBS: Caso ocorram mudanças na legislação fiscal que implique alteração de impostos, o mesmo sera cobrado de acordo com a lei em vigor, no dia do faturamento

4) Local de Entrega
Os preços apresentados são para entrega na CONTECH – São Paulo - SP

5) Validade da Proposta 10 dias

6) Certificados
Não aplicavel
Incluso laudo de verificação de resultados apresentados pelo medidor de vazão , com bancada de teste rastreada pelo IPT

7) Embalagem:
- Embalagens Padrões, sem custo adicional.
- Embalagens Especiais será cobrado um adicional de 2% sobre o valor dos produtos

8) Inspeções e Testes:
Estão inclusos nos valores ofertados.

9) Desenhos para Aprovação:
Inclusos somente para produtos fora das especificações padrão

10) Reajuste:
Os preços ofertados não sofrerão reajuste dentro do prazo de validade do orçamento

11) Garantia:
12 meses de operação ou 18 meses da data de entrega do equipamento, prevalecendo o que primeiro ocorrer. A garantia será prestada contra defeitos de fabricação, desde que respeitadas todas as recomendações de montagens/instalações, devendo o equipamento ser entregue na CONTECH em S Paulo / SP.

CONTECH Industria e Comércio de Equipamentos Eletrônicos Ltda.
Rua Acapurana, 80 – Brooklin – São Paulo – SP – Cep 04622-050
Fone/Fax (11) 5542-1944 / 535-4717

12) Reserva de Domínio
Os equipamentos fornecidos pela CONTECH permanecerão como propriedade desta, ate que tenham sido quitados integralmente ficando entretanto, na posse do comprador na qualidade de fiel depositário

13) Devolução e Cancelamento
O recebimento pela CONTECH de equipamentos devolvidos em razão de defeitos, não constitui motivo para cancelamento do pedido Se a devolução for feita sem nosso prévio consentimento, as despesas dela decorrente correrão por conta do cliente
Em caso de cancelamento de pedido, será cobrado uma indenização de no mínimo 30% do valor do Pedido de Compra

14) Itens Fora do Escopo:
Estão fora do escopo de fornecimento possíveis obras de infra-estrutura na planta do cliente tais como obras de alvenaria e mudanças de tubulações

DE ACORDO

CONTECH

Assinatura e Carimbo
CLIENTE

CONTECH Industria e Comércio de Equipamentos Eletrônicos Ltda.
Rua Acapurana, 80 – Brooklin – São Paulo – SP – Cep 04622-050
Fone/Fax (11) 5542-1944 / 535-4 17