WEST WENDOVER RAIL PASSENGER STATION – AMTRAK

USDOT FY2016 TIGER APPLICATION BENEFIT COST ANALYSIS



SUBMITTED BY

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EXECUTIVE SUMMARY

The proposed action considers the construction of a rail station and related platform along with associated amenities to serve Amtrak's long distance California Zephyr. The amenities include an enclosed shelter for ticketing and waiting passengers, short term parking, and pedestrian facilities to tie the facility in with the community.

The West Wendover area is located along Interstate 80 on the Nevada Utah border and has a population of approximately 7,000. The local economy is mining and tourism based providing hospitality and entertainment services. On any given weekend 30,000 visitors can be found in the community. A charter flight program brings in an additional 50,000 plus persons a year. Union Pacific Railroad operates a transcontinental rail line passing through West Wendover. Amtrak operates on this line with the California Zephyr running between Chicago, Illinois and San Francisco, California. Even though the train passes through the community twice a day the nearest stations are located 115 miles east in Salt Lake City, Utah and 115 miles west in Elko, Nevada creating a 230 mile gap in service. Access to scheduled flights is also located in these two cities making significant automobile travel a necessity for long distance trips. The proposed action is the result of many years of hard work trying to remedy this issue by gaining approval from Amtrak and Union Pacific to develop a stop in West Wendover.

The benefit-cost analysis considers the broader societal benefits of the project impacting not only the region but the nation. Several areas of benefit including: livability, economic competitiveness, safety, state of good repair, and environmental sustainability are considered.

Quality of Life/Economic Competitiveness: The location of an Amtrak stop in West Wendover will reduce the automobile travel necessary to access the national rail passenger network by allowing riders to make a local connection with rail passenger service. This will reduce the Vehicle Miles Traveled (VMT), increase accessibility to the national rail passenger network for those who may not be able to drive long distances, and lower the operating costs of travel in the form of fuel savings and vehicle wear and tear.

Quality of Life and Economic Competitiveness have been combined because the monetization of the reduction of VMT's affecting quality of life is the associated fuel savings that is also considered a factor of economic competitiveness.

The VMT's have been monetized over 20 years as fuel cost savings totaling \$11,839,683.62 at 3% NPV and \$7,704,436.13 at 7% NPV.



Current Status/ Baseline & Problem to be Addressed	Change to Baseline/ Alternatives	Type of Impacts	Population Affected by Impacts	Economic Benefit	Summary of Results	Page Reference in BCA
No local access to the National Rail passenger Network	Develop a Amtrak Stop on the rail line passing through West Wendover, Nevada	Reduce the VMT's necessary to access Amtrak stops in Salt Lake City and Elko thus reducing fuel consumption and the associated cost savings	The impacts will affect both the local population who may be traveling to other parts of the United States and long distance visitors who may chose not to utilize automobiles if the rail passenger connection is developed	Monetized value of fuel savings	Fuel cost savings totaling \$11,839,683.62 at 3% NPV and \$7,704,436.13 at 7% NPV.	pp. 6 to 8

Table ES- 1- Quality of Life/Economic Competitiveness Long-Term Outcome Matrix

Safety: As 80% of the projected passengers using West Wendover Amtrak station would likely drive to or from a point at least 115 miles away to Elko, Nevada or Salt Lake City, Utah to access scheduled rail passenger service or scheduled air service, statistically some of those trips will result in accidents. The projected savings in VMT's over a 20 year period is 21,752,113 miles. With accidents in the surrounding Counties occurring at a rate of approximately one 870,000 VMT's statistically some potential rail passengers will be involved in an accident trying to access the rail network at the current locations. While the numbers are small they still add up to a significant social cost that can be avoided. The projected value of life social savings due to a reduction in VMT traveled in Elko County and Tooele County because of modal shift to rail is calculated as \$1,083,484.42 at 3% NPV and \$734,941.36 at 7% NPV.



Current Status/ Baseline & Problem to be Addressed	Change to Baseline/ Alternatives	Type of Impacts	Population Affected by Impacts	Economic Benefit	Summary of Results	Page Reference in BCA
No local access to the National Rail passenger Network. People drive 115 miles to access the rail network.	Developing an Amtrak Stop on the rail line passing through West Wendover, Nevada will reduce the VMT's driven for those utilizing the stop and thus reduce the number of accidents that statistically are bound to occur to some potential riders.	Reduce the VMT's necessary to access Amtrak stops in Salt Lake City and Elko thus reducing the potential for accidents and the associated cost savings	The impacts will affect both the local population who may be traveling to other parts of the United States and long distance visitors who may chose not to utilize automobiles if the rail passenger connection is developed	Reduction of accidents will reduce the social cost of those accidents	Value of Life social cost savings projected to be \$1,083,484.42 at 3% NPV and \$734,941.36 at 7% NPV.	pp. 9 to 11

Table ES- 2 – Safety Matrix

State of Good Repair: The proposed facility does not currently exist. However, there will be a yearly maintenance and operational costs associated with the new facilities that must be factored into the overall cost of the proposed action.

The total Operation and Maintenance Costs over 20 years are \$1,454,409.60 at 3% NPV and \$1,037,348.91 at 7% NPV.



Current Status/ Baseline & Problem to be Addressed	Change to Baseline/ Alternatives	Type of Impacts	Population Affected by Impacts	Economic Benefit	Summary of Results	Page Reference in BCA
The proposed facility currently does not exist. Once constructed the facility will require maintenance and funds will need to be budgeted.	New Facility adds operation and maintenance costs to the City budget.	Added Maintenance and Operation al issues with an additional facility	Entire population of the Wendover region and tourists	These costs are a necessary to keep the proposed action in operation. The economic benefits are seen in other categories	Operation and Maintenance Costs totaling \$1,454,409.60 at 3% NPV and \$1,037,348.91 at 7% NPV.	pp. 12 to 14

 Table ES- 3 - State of Good Repair Long-Term Outcome Matrix

Environmental Sustainability: By providing convenient opportunities for residents and visitors alike to utilize rail passenger service with a local stop the proposed action will also reduce long distance automobile travel. This in turn will reduce emissions, specifically reducing CO_2 pollution which according to EPA contributes 82% of the greenhouse gasses thought to be a key factor in global warming. It is important to note that Amtrak is already running the California Zephyr through West Wendover and therefore the emissions from the train will not appreciably change.

The resulting 20 year savings due to reduction of CO_2 emissions totals \$420,520.74 at 3% NPV.

Current Status/ Baseline & Problem to be Addressed	Change to Baseline/ Alternatives	Type of Impacts	Population Affected by Impacts	Economic Benefit	Summary of Results	Page Reference in BCA
Lack of reasonable access to long distance rail passenger service requiring long distance automobile travel and creating unnecessary CO ₂ Emissions	Provide a local Amtrak stop.	CO₂ emissions Reduction	Region and Earth as a whole	Monetized value of reduction in CO ₂ emissions	Savings due to reduction of CO ₂ emissions totals \$420,520.74 at 3% NPV	pp. 14 to 16

Table ES- 4 - Environmental Sustainability Matrix



Summation of Benefit/ Cost: The proposed action provides a monetary benefit as compared with the associated cost to construct, operate and maintain the project. The following table sums up the benefits vs. the cost of the project:

Long Term Outcomes	comes Benefits (3% NPV)		Benefits (7% NPV)	Costs (3% NPV)	Costs (7% NPV)
Quality of Life and					
Economic					
Competitiveness	\$	11,839,683.62	\$ 7,704,436.13		
(VMT Reduction and					
Fuel Savings)					
Safety (Accident					
Reduction Value of	\$	1,083,484.42	\$ 734,941.36		
Injuries)					
State of Good Repair					
(Operation and				\$ 1,454,409.60	\$ 1,037,348.91
Maintenance Costs)					
Environmental					
Stability (CO ₂	\$	420,520.74	\$ 420,520.74		
Reduction)					
Construction Costs				\$ 6,499,696.36	\$ 6,499,696.36
Totals	\$	13,343,688.78	\$ 8,859,898.23	\$ 7,954,105.96	\$ 7,537,045.27

Table ES- 5 Summation of Benefits vs. Cost

Net Benefit @ 3% NPV minus Net Cost @ 3% NPV	\$ 5,389,582.82	Ratio of Net Benefit @ 3% NPV to Net Cost @ 3% NP\	1.6
Net Benefit @ 7% NPV minus Net Cost @ 7% NPV	\$ 1,322,852.97	Ratio of Net Benefit @ 7% NPV to Net Cost @ 7% NPV	1.1

The benefits of the proposed action will last far beyond the 20 year scope of this report. Indeed, this project will improve the quality of life for many people. The local citizens in the Wendover region as well as the nation as a whole will benefit from improved accessibility to the national rail passenger network, and associated costs savings in reduced automobile travel both in actual operational costs and emissions reductions.



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A. INTRODUCTION

This Benefit Cost Analysis (BCA) has been developed to look at broad societal impacts of the proposed action to the Wendover region and the tax paying citizens of the United States of America who are being asked to help fund the development of an Amtrak stop in West Wendover, Nevada.

This BCA has been developed as part of a request for funding to the United States Department of Transportation TIGER Discretionary Grant Program. The analysis was tailored to fit the general topics of: livability, economic competitiveness, safety, state of good repair, and environmental sustainability as spelled out in the Notice of Funding Availability for the Department of Transportation's National Infrastructure Investments Under the Full-Year Continuing Appropriations, 2015 referred to in the Notice as "TIGER Discretionary Grants".

B. PROJECT SUMMARY

1. Description of Current Infrastructure Baseline:

Currently the City of West Wendover does not have a local connection to the national rail passenger network. A resident must travel 115 miles to Salt Lake City, Utah or Elko, Nevada to board the California Zephyr that passes through West Wendover. The current transportation options for people traveling to or from West Wendover include: private automobile, bus, or private chartered flights.

In addition to the travel by the local residential and business population of West Wendover, Salt Lake City and the surrounding Wasatch Front provide a large percentage of visitors to West Wendover due to its relative convenience for short destination trips. A majority of these visitors from the Wasatch Front travel by private automobile though many also use the charter and scheduled bus services. Visitation on weekends and for special events can easily reach over 30,000 people. Weekday visitation is lower but still substantial being part of the 3 million plus visitors annually which travel through the community (Application Attachment A-8, Community Planning Documents, West Wendover Quick Facts).

a. <u>Regional and Local Travel</u>

- i. Automobile: Travel by automobile in and out of the West Wendover area primarily occurs via Interstate 80 which runs east and west from the community connecting Salt Lake City, Utah to Reno, Nevada; and to a lesser extent travel occurs via US-93A which provides connection to other communities in southern Nevada including Las Vegas.
- ii. Bus Local: Locally the main business district of the community is served by a local bus service which is supported and operated by cooperative agreement between the main business interests of the community's hospitality industry.



This service ensures ease of access along the community's main arterial corridor (Wendover Boulevard) and to points on a second arterial corridor (Pueblo Boulevard). The bus service is provided at no cost to users.

iii. Bus – Regional: Regional bus service via Le-Bus and Utah Trailways provides dedicated regional bus service between the Wasatch Front in Utah and West Wendover. This service runs several times a day and is supported by the hospitality and entertainment industry. Le-Bus averages 2,000 passengers a week with their service while Utah Trailways averages approximately 600 passengers a week. Additionally other tour bus companies make regular stops in West Wendover as part of their regional tour operations.

b. <u>National Travel</u>

From a National perspective, the West Wendover area is served by three transportation options: Automobile, bus service and private chartered air service.

- i. Automobile: As with local/regional travel, at a national level West Wendover is supported by Interstate 80 which runs east and west through the community. Interstate 80 being the main east-west national interstate corridor connecting New York to San Francisco. The Interstate carries an average of 6,219 vehicles per day through the community (East and West); 5,200 of those vehicles (77%) are estimated to exit into the community east and west bound through four community interchanges (Nevada DOT AADTC 2012, Utah DOT AADTC 2012). The most recent NDOT Nevada Rural Interstate occupancy average (2003) is 2.3 persons per vehicle. This equates to 13,950 persons per day (5,091,917 person per year) passing through West Wendover each year with 9,465 persons per day (3,454,543 persons per year) entering the community via Interstate 80.
- i. Bus: Nationally the community is served by Greyhound providing daily service to communities along the Interstate 80 corridor and ultimately providing national connections.
- ii. Air Service: Chartered flights are offered by FLYAWAY Wendover as part of a community wide flight program headed by the Resorts at Wendover Group. This program currently operates an average of 7-10 flights per week (70 cities) with 168 passenger Boeing 737-800 aircraft operated by Xtra Airways. Those passengers stay several nights adding upwards of 450 additional visitors in the community each day. The program has seen an average annual growth rate of 11.86% since its inception in 2005.

In order to remedy the issue of *NON-ACCESS to the National Transportation System via the National Rail Passenger Network*, The City of West Wendover has partnered with the National Railroad Passenger Corporation (Amtrak). After several years of study and related work by the partners, the City and Amtrak executed a



formal Memorandum of Understanding (MOU) on February 11, 2015. This MOU (Application Attachment A-8) provides the authority and parameters to construct and operate a rail passenger station in the community along with the related coordination and approvals of the Host Railroad (Union Pacific Railroad).

As part of the overall work to ensure complete National Transportation Network access, the City has acquired the West Wendover Welcome Center from the Nevada Department of Transportation. The Welcome Center is located a half mile away from the proposed rail passenger station site. It is located immediately adjacent to a main interchange (Exit 410) on Interstate 80. The City has been operating the facility for 15 years as a tourism-transportation center. With the acquisition of the facility from NDOT the City will begin conversion of the Welcome Center into a Multi-Modal facility providing a hub for local, regional and national bus service to connect. A key component will linking local busses with the Amtrak trains to provide seamless connections between various modes of transportation both in the community, regionally and nationally.

2. Proposed Project Description

The proposed action provides the necessary facilities for Amtrak's California Zephyr to make bi-directional daily stops in West Wendover. The facilities as required by Amtrak and the Host Railroad (Union Pacific) include: the construction of a 1,900 foot long pocket track, a 1,200 foot long track side platform, electronic ticketing services, shelter with seating, ADA accommodations, short term parking, connections to the local transportation system and pedestrian facilities.

See Table 1 for a summary of project costs. A detailed engineer's estimate and conceptual drawings for the proposed project have been included in the project application.



Table 1 - Summary of Project Costs

Summary of	Summary of Construction Costs and Project Funding										
Project Costs	Amount (\$)										
Construction Total	\$5,062,263										
Contingency (10%)	\$506,226										
Legal and Administrative											
(2%)	\$101,245										
Environmental	\$20,000										
Engineering Design (6%)	\$303,736										
Construction											
Management (10%)	\$506,226										
Total	\$6,499,696										
Project Funding	Amount (\$)	Percent (%)									
Community Contribution											
(Cash)	\$2,274,894	35%									
USDOT/FY 2016 TIGER	\$4,224,803	65%									
Total Funding	\$6,499,696	100%									

WEST WENDOVER RAIL PASSENGER STATION PROJECT

3. Description of Users

The proposed West Wendover Amtrak station will serve local residents and visiting tourists. Each group is characterized below:

Local Residents: The West Wendover area is home to population of approximately 7,000 permanent residents. Roughly 70% of the jobs in the region are tourism related jobs. These jobs require little education or experience and offer little opportunity for advancement. Thus, the low to moderate (LMI) (those living below 80% of the local median income) for West Wendover is 63% LMI. When combined with Wendover, Utah the percentage of LMI residents is 64%. Many of the LMI population live in trailers, apartments and employer subsidized housing.

Demographic data for the California Zephyr provided by Amtrak shows that 46% of the current ridership utilizes rail passenger service to visit family and friends. Most of the residents of West Wendover originate from other locations. As word spread about the process of requesting a passenger stop and as a result of the 2013 community needs assessment by the City West Wendover, local residents have expressed interest in being able to board a train to visit family and friends in other states. The ability to utilize the national rail network will greatly benefit the local residents.

<u>Long Distance Visitors</u>: According to the current demographic data for the California Zephyr, 70% of the riders are 55 years and older. 40% of those riding the California



Zephyr are taking 1 week plus vacations or riding for recreation and leisure. These demographics match well with the typical weekday visitors to West Wendover.

<u>Amtrak Ridership in Nevada</u>: Amtrak currently has three stops in Nevada, including: Reno, Winnemucca and Elko. In 2014 Amtrak Nevada station usage was 84,638 people. Reno accounted for 70,142 people, Elko 9,436, and Winnemucca 5,060. As happened with the current private charter flight program, resort owners and the local community on whole will undoubtedly partner with Amtrak to aggressively market rail travel packages to the demographic served by those riding the California Zephyr.

C. BASIS OF CALCULATIONS

Ridership projections begin with a first year ridership of 2,900 this number has been derived by an internal feasibility study conducted by Amtrak. Projections take into consideration similar startup results that the City experienced with the introduction of a private charter flight program and the growth in revenue in the local businesses and tourism to derive potential growth rates for ridership once the Amtrak station is placed in operation in West Wendover.

West Wendover Amtrak Stop Ridership Projections												
Year	% Growth Total Year % Growth Total											
2020		2,900	2030	3.00%	12,741							
2021	75.00%	5,075	2031	3.00%	13,123							
2022	50.00%	7,613	2032	3.00%	13,517							
2023	25.00%	9,516	2033	3.00%	13,922							
2024	10.00%	10,467	2034	3.00%	14,340							
2025	5.00%	10,991	2035	3.00%	14,770							
2026	3.00%	11,320	2036	3.00%	15,213							
2027	3.00%	11,660	2037	3.00%	15,670							
2028	3.00%	12,010	2038	3.00%	16,140							
2029	3.00%	12,370	2039	3.00%	16,624							

Table	2 -	Proi	iected	Rid	ershi	n
1 4010	-		ceccu		CI 5111	μ

Amtrak has derived a first year ridership of 2,900 from an internal feasibility study conducted for the proposed passenger station. Growth is calculated on a sliding scale beginning at 70% for the and settling at 3% by the 6th year of operation. The rapid initial growth is based upon an aggressive marketing program by the resorts. The charter flight program increased 192.71% in the second year due to similar resort marketing programs.

A conservative 3% year over year growth rate is used for projections beyond initial 5 year period. The local charter flight service average enplanement has averaged growth of 11.86% a year from 2006 to 2014. From 1997 to 2015 gaming revenues in the West Wendover Market average 5.65% growth per year.



The proposed action will introduce a new mode of transportation into the West Wendover market. In order to develop a reasonable calculation with which to compare the benefits and costs with current transportation options the following assumptions have been applied:

- The demographic characteristics of ridership visiting and traveling from West Wendover will remain the same as for the overall 2014 demographic characteristics for the California Zephyr. Specifically, the age ratios, the economic characteristics, and the reasons for travel will remain the same. The City planning staff noticed a general similarity in the characteristics of the California Zephyr demographic in comparison with the observed characteristics of visitors to the local resorts in West Wendover.
- For simplification in calculation 80% of the potential rail passengers are assumed to currently travel by automobile to and from West Wendover 115 miles to either Elko, Nevada or Salt Lake City, Utah where scheduled air service and rail passenger service to distant destinations are readily available. The remaining 20% represents new visitors, or visitors transferred from the buses and flights already serving the community and thus will have a neutral effect on benefit and costs.

A figure of 2.03 people per car will be used to determine the number of vehicles making the 100 plus mile trip to the larger population centers. The 2.03 persons per vehicle came from 2003 Nevada Department of Transportation Vehicle Occupancy Monitoring Program (Average Vehicle Occupancy from 2001 to 2003, page 11, East Elko Interchange to NV/UT Stateline).

D. TYPES OF BENEFITS

1. Quality of Life/Economic Competitiveness:

While the current route of the California Zephyr passes through West Wendover, the nearest stops are located almost 115 miles to the east and west in Salt Lake City, Utah and Elko, Nevada. This is also the case for access to scheduled air service. Thus those who would choose to utilize rail passenger service for long distance travel must drive a long distance to access the service. Likewise visitors to West Wendover that ride the train must stop in either Salt Lake City, Utah or Elko, Nevada and change travel modes to reach their intended destination. The options to complete the trip are bus, rental care or hired driver. The location of a stop in West Wendover will reduce the vehicle miles traveled in automobiles along Interstate 80 for those passengers desiring to travel by rail. The reduction in Vehicle Miles Traveled (VMT), also lowers the operating costs of travel in the form of fuel savings and vehicle wear and tear.

The base line consideration for those who might chose rail travel would be continued use of automobile to travel 100 plus miles to the nearest metropolitan area where rail passenger and other forms of scheduled transportation services are available. The calculation targets the estimated 80% of the projected rail passenger ridership that



would utilize automobiles to travel to and from metropolitan centers with available transportation alternatives. The 80% automobile use is a conservative number loosely based upon review of numerous studies of modal share covering the western United States. A specific single number was not chosen for use because the studies typically modeled areas in which either short commutes were being addressed, alternate modes were abundant or population and density are greater. Studies of modal share in truly rural parts of the western United States seem to be non-existent. Such areas typically have limited transportation options and thus the use of an automobile is most likely near 100% of the modal share. West Wendover does have the options of limited long distance bus service, dedicated private bus service to points in the Salt Lake City area for resort patrons, and chartered private flights for resort patrons. With this in mind 20% of the potential rail passengers were considered to utilize these other modes or chose not to travel to West Wendover at all.

Since the rail service already passes through West Wendover and the number of riders is quite small compared to the 360,000 + yearly riders of the California Zephyr. It is assumed that operational costs for the additional passengers on the train will be negligible for the next 20 years and thus no attempt has been made to make comparative costs of the rail service to the VMT and fuel savings of the reduced automobile use. See Table 3- Estimated Fuel Savings Due to Reduction in VMT's for the VMT of potential rail passengers to reach metropolitan areas where alternative modes of travel including rail passenger service are available (Column 3 titled Baseline Vehicle VMT Annually), and reduction of operating costs due to lower VMT's, calculated as fuel savings in column 11 titled Baseline Vehicle Annual Fuel Benefits (\$), column 12 titled 3% NPV Fuel Benefits and column 13 titled 7% NPV Fuel Benefits.

Quality of Life and Economic Competitiveness have been combined because the monetization of the reduction of VMT's affecting quality of life is the associated fuel savings that is also considered a factor of economic competitiveness. The monetized value of fuel savings due to the reduction of VMT's over a 20 year period totals \$11,839,683.62 at 3% NPV and \$7,704,436.13 at 7% NPV.



Table 3 Estima	Table 3 Estimated Fuel Savings Due to Reduction in VMT's													
1	2	3	4	5	6	7		8	9	10	11		12	13
Year	Annual Ridership Projections (Growth Rate =75%, 50%, 25%, 10%, and 5% Sliding Scale for first 5 years and 3% after year 2026)	Baseline Vehicle VMT (Annually)	Average Occupancy per vehicle	Baseline Vehicle Person- Miles of Travel (PMT) (Annually)	Baseline Vehicle Annual CO ₂ (metric tons)	Baseline Vehicle Annua 3% CO ₂ Cost (al ³ \$)	3% NPV CO₂ Benefits	Baseline Vehicle gallons per year	Average Cost per Gallon (Increase 5.766% yearly based on average inflation from years 1999 to 2015)	Baseline Veh Annual Fue Benefits (\$	cle I	3% NPV Fuel Benefits	7% NPV Fuel Benefits
2020*	2,900	262,857	2.03	533,600	110	\$ 5,74	5 \$	5,745	31,168	\$ 3.390	\$ 105	,657	\$ 105,657	\$ 105,657
2021	5,075	460,000	2.03	933,800	193	\$ 10,05	54 \$	9,761	54,544	\$ 3.585	5 \$ 195	,560	\$ 189,864	\$ 182,766
2022	7,613	690,000	2.03	1,400,700	290	\$ 15,66	51 \$	14,762	81,817	\$ 3.792	\$ 310	,252	\$ 292,442	\$ 270,986
2023	9,516	862,500	2.03	1,750,875	363	\$ 19,93	39 \$	18,247	102,271	\$ 4.011	\$ 410	,175	\$ 375,368	\$ 334,825
2024	10,467	948,750	2.03	1,925,963	399	\$ 22,33	32 \$	19,842	112,498	\$ 4.242	2 \$ 477	,206	\$ 423,991	\$ 364,058
2025	10,991	996,188	2.03	2,022,261	419	\$ 23,86	67 \$	20,588	118,123	\$ 4.486	\$ 529	,955	\$ 457,144	\$ 377,851
2026	11,320	1,026,073	2.03	2,082,928	431	\$ 25,01	4 \$	20,949	121,666	\$ 4.745	\$ \$ 577	,325	\$ 483,501	\$ 384,696
2027	11,660	1,056,855	2.03	2,145,416	444	\$ 26,65	53 \$	21,672	125,316	\$ 5.019	\$ 628	,929	\$ 511,377	\$ 391,665
2028	12,010	1,088,561	2.03	2,209,779	458	\$ 27,91	0 \$	22,033	129,076	\$ 5.308	\$ 685	,146	\$ 540,860	\$ 398,761
2029	12,370	1,121,218	2.03	2,276,072	471	\$ 29,21	9 \$	22,394	132,948	\$ 5.614	\$ 746	,387	\$ 572,044	\$ 405,985
2030	12,741	1,154,854	2.03	2,344,354	485	\$ 30,58	31 \$	22,755	136,937	\$ 5.938	\$ \$ 813	,103	\$ 605,025	\$ 413,340
2031	13,123	1,189,500	2.03	2,414,685	500	\$ 31,49	8 \$	22,755	141,045	\$ 6.280	\$ 885	,782	\$ 639,908	\$ 420,829
2032	13,517	1,225,185	2.03	2,487,125	515	\$ 33,47	'3 \$	23,478	145,276	\$ 6.642	\$ 964	,958	\$ 676,802	\$ 428,453
2033	13,922	1,261,941	2.03	2,561,739	530	\$ 35,00	8 \$	23,839	149,634	\$ 7.025	\$\$1,051	,210	\$ 715,823	\$ 436,215
2034	14,340	1,299,799	2.03	2,638,591	546	\$ 36,60)5 \$	24,200	154,123	\$ 7.430	\$ 1,145	,172	\$ 757,094	\$ 444,118
2035	14,770	1,338,793	2.03	2,717,749	563	\$ 38,26	5 \$	24,561	158,747	\$ 7.859	\$ 1,247	,533	\$ 800,744	\$ 452,163
2036	15,213	1,378,956	2.03	2,799,282	580	\$ 39,99	93 \$	24,922	163,509	\$ 8.312	1,359	,044	\$ 846,911	\$ 460,355
2037	15,670	1,420,325	2.03	2,883,260	597	\$ 42,38	37 \$	25,645	168,415	\$ 8.791	\$ 1,480	,522	\$ 895,740	\$ 468,695
2038	16,140	1,462,935	2.03	2,969,758	615	\$ 44,27	'3 \$	26,006	173,467	\$ 9.298	\$\$1,612	,858	\$ 947,384	\$ 477,186
2039	16,624	1,506,823	2.03	3,058,851	633	\$ 46,23	35 \$	26,367	178,671	\$ 9.834	\$ 1,757	,023	\$ 1,002,005	\$ 485,831
					Totals	\$ 538,48	\$0 \$	420,521			\$ 16,983	,795	\$ 11,839,684	\$ 7,704,436

* Note: Construction is anticipated to be complete by the year 2020; therefore, cost savings and reductions will begin at this time and are projected 20 years into the future.

See Appendix A. Basis of Calculations For Select Tables

2. Safety:

While rail passenger accidents tend to be dramatic and receive a great deal of media attention rail travel is still much safer than automobile travel. As 80% of the projected passengers using West Wendover Amtrak station would likely drive to or from a point at least 115 miles away to Elko, Nevada or Salt Lake City, Utah where Amtrak stations currently reside and scheduled air service is available, statistically some of those trips will result in accidents.

To analyze the potential for accidents and their cost to society accident data was collected for Elko County, Nevada and Tooele County, Utah. A driver entering or leaving West Wendover must drive the bulk of the miles east or west to Elko or Salt Lake City through one or both of these counties. Both counties are lightly populated along the Interstate 80 corridor. The accident data for Elko County correlating with VMT's is from 2010 and does not have specific information detailing injury crashes. The data from Tooele County is 2014 data and includes state wide percentages of accidents with injuries in the KABCO format. The accident data from both Counties when calculated as percentage of the total accidents in the County by the categories of Property Damage Only (PDO) and injury were within 5% of each other, and less than 1% difference in the death category.

As the Tooele County data is more current and complete it has been used to calculate the statistical number of accidents that may be prevented as passengers utilize the West Wendover Amtrak station and no longer have to drive 115 miles to access the rail passenger network. The analysis is found in Table 4 and Table 5 The projected value of a statistical life and injuries savings due to a reduction in VMT traveled in Elko County and Tooele County because of modal shift to rail is calculated as \$1,083,484.42 at 3% NPV and \$734,941.36 at 7% NPV.



Table 4 Pr	ojected Yearly Reduction of A	ccidents and As	ssociated Value	of a Statistical Life an	d Injuries Savings															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Year	Annual Ridership Projections (Growth Rate =75%, 50%, 25%, 10%, and 5% Sliding Scale for first 5 years and 3% after year 2026)	Baseline Vehicle VMT Reduction (Annually)	Running Total of VMT	Statistical Occurrence of PDO Accidents (1 Per 1,149,425 VMT)	Statistical Occurrence of Injury Accidents (1 Per 2,967,359 VMT)	Statistical Occurrence of Fatal Accidents (1 Per 74,626,865 VMT)	Conversion of PDO Accidents To KABCO Scale (No Injury 69.2% of Total Accidents [25])	Conversion of Injury Accidents to KABCO Scale* (Possible Injury 17.5% of Total accidents [25]) Randomly Placed	Conversion of Injury Accidents to KABCO Scale* (Non Incapacitating Injury 10.7% of Total Accidents [25]) Randomly Placed	Conversion of Injury Accidents to KABCO Scale* (Incapacitating Injury 2.2% of Total Accidents [25]) Randomly Placed	Conversion of Injury Accidents to KABCO Scale* (Death 0.4% of Total Accidents [25]) Randomly Placed	Calculation of No Injury Accidents as AIS Values \$2015	Calculation of No Injury Accidents as AIS Values \$2015	Total Value of Injuries \$2015	Total Value of Injuries Accounting for Inflation (3% per Year)	3% NPV Value Of Injuries	7% NPV Value of Injuries			
2020*	2,900	262,857										\$-	\$-	\$-	\$-	\$ -	\$-	\$-	\$-	\$-
2021	5,075	460,000	722,857									\$-	\$-	\$-	\$-	\$ -	\$-	\$-	\$-	\$-
2022	7,613	690,000	1,412,857	1	L		1					\$ 3,234.82	\$-	\$-	\$-	\$ -	\$ 3,234.82	\$ 3,431.82	\$ 3,234.82	\$ 3,049.12
2023	9,516	862,500	2,275,357		1	L		1	L			\$-	\$ 63,854.50	\$-	\$-	\$ -	\$ 63,854.50	\$ 69,775.53	\$ 63,854.50	\$ 58,435.91
2024	10,467	948,750	3,224,107	1	L		1					\$ 3,234.82	\$-	\$-	\$-	\$ -	\$ 3,234.82	\$ 3,640.81	\$ 3,234.82	\$ 2,874.09
2025	10,991	996,188	4,220,295	1	L		1					\$ 3,234.82	\$-	\$-	\$-	\$ -	\$ 3,234.82	\$ 3,750.04	\$ 3,234.82	\$ 2,790.38
2026	11,320	1,026,073	5,246,368	1	1 1	L	1	. 1	L			\$ 3,234.82	\$ 63,854.50	\$-	\$-	\$-	\$ 67,089.31	\$ 80,108.15	\$ 67,089.31	\$ 56,186.24
2027	11,660	1,056,855	6,303,223	1	L		1					\$ 3,234.82	\$-	\$ -	\$-	\$-	\$ 3,234.82	\$ 3,978.42	\$ 3,234.82	\$ 2,630.20
2028	12,010	1,088,561	7,391,784	1	1 1	L	1		1			\$ 3,234.82	\$-	\$ 125,049.89	\$-	\$-	\$ 128,284.70	\$ 162,507.22	\$ 128,284.70	\$ 101,269.13
2029	12,370	1,121,218	8,513,002	1	L							\$-	\$-	\$-	\$-	\$ -	\$-	\$-	\$-	\$-
2030	12,741	1,154,854	9,667,856	1			1					\$ 3,234.82	\$ -	\$ -	\$ -	\$ -	\$ 3,234.82	\$ 4,347.32	\$ 3,234.82	\$ 2,407.01
2031	13,123	1,189,500	10,857,356	1	1	L	1	. 1	L			\$ 3,234.82	\$ 63,854.50	\$ -	\$ -	\$ -	\$ 67,089.31	\$ 92,867.30	\$ 67,089.31	\$ 48,466.75
2032	13,517	1,225,185	12,082,541	1	L		1					\$ 3,234.82	\$-	\$-	\$-	\$-	\$ 3,234.82	\$ 4,612.07	\$ 3,234.82	\$ 2,268.83
2033	13,922	1,261,941	13,344,482	1	1 1	L	1	. 1	L			\$ 3,234.82	\$ 63,854.50	\$ -	\$-	\$ -	\$ 67,089.31	\$ 98,522.92	\$ 67,089.31	\$ 45,684.56
2034	14,340	1,299,799	14,644,280	1			1					\$ 3,234.82	\$ -	\$ -	\$ -	\$ -	\$ 3,234.82	\$ 4,892.95	\$ 3,234.82	\$ 2,138.59
2035	14,770	1,338,793	15,983,073	1			1					\$ 3,234.82	\$ -	\$ -	\$ -	\$ -	\$ 3,234.82	\$ 5,039.74	\$ 3,234.82	\$ 2,076.31
2036	15,213	1,378,956	17,362,030	2	2 1	L	2	2		1		\$ 6,469.63	\$-	\$-	\$ 459,120.29	\$-	\$ 465,589.92	\$ 747,135.14	\$ 465,589.92	\$ 290,140.25
2037	15,670	1,420,325	18,782,355	1	L		1					\$ 3,234.82	\$-	\$-	\$-	\$-	\$ 3,234.82	\$ 5,346.66	\$ 3,234.82	\$ 1,957.12
2038	16,140	1,462,935	20,245,290	1	L		1	. 1	L			\$ 3,234.82	\$ 63,854.50	\$-	\$-	\$-	\$ 67,089.31	\$ 114,215.06	\$ 67,089.31	\$ 39,407.90
2039	16,624	1,506,823	21,752,113	1	1	L	1		1			\$ 3,234.82	\$ -	\$ 125,049.89	\$ -	\$ -	\$ 128,284.70	\$ 224,948.00	\$ 128,284.70	\$ 73,158.97
			Totals	i 18	3 7	7 O	17	' 5	5 2	1	. C	\$ 54,991.87	\$ 319,272.48	\$ 250,099.78	\$ 459,120.29	\$-	\$ 1,083,484.42	\$ 1,629,119.15	\$ 1,083,484.42	\$ 734,941.36

See Appendix A. Basis of Calculations For Select Tables

Table 5. AIS Valu	able 5. AIS Value of a Statistical Life and Injuries Matrix														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	14	16
							# Non-fatal							Dollar Value	
	0	С	В	Α	к	U	Accidents		Dollar					Single	
									Value	Dollar Value	Dollar Value			Accident	
									Single	Single	Single Accident	Dollar Value		Injured	Dollar Value
						Injured			Accident	Accident	Non-	Single Accident	Dollar Value	Severity	Single Accident
			Non-			Severity	Unknown if	Dollar Value AIS	No Injury	Possible Injury	incapacitating	Incapacitating	Single Accident	Unknown	Unknown If
	No Injury	Possible Injury	incapacitating	Incapacitating	Killed	Unknown	Injured	Scale (\$2015)	(\$2015)	(\$2015)	(\$2015)	(\$2015)	Killed (\$2015)	(\$2015)	Injured (\$2015)
AIS 0	0.92534	0.23437	0.08347	0.03437	0	0.21538	0.43676	\$-	\$ -	\$-	\$-	\$-	\$-	\$-	\$-
AIS 1	0.07257	0.68946	0.76843	0.55449	0	0.62728	0.41739	\$ 28,800.00	\$ 2,090.02	\$ 19,856.45	\$ 22,130.78	\$ 15,969.31	\$-	\$ 18,065.66	\$ 12,020.83
AIS 2	0.00198	0.06391	0.10898	0.20908	0	0.104	0.08872	\$ 451,200.00	\$ 893.38	\$ 28,836.19	\$ 49,171.78	\$ 94,336.90	\$-	\$ 46,924.80	\$ 40,030.46
AIS 3	0.00008	0.01071	0.03191	0.14437	0	0.03858	0.04817	\$ 1,008,000.00	\$ 80.64	\$ 10,795.68	\$ 32,165.28	\$ 145,524.96	\$-	\$ 38,888.64	\$ 48,555.36
AIS 4	0	0.00142	0.0062	0.03986	0	0.00442	0.00617	\$ 2,553,600.00	\$-	\$ 3,626.11	\$ 15,832.32	\$ 101,786.50	\$-	\$ 11,286.91	\$ 15,755.71
AIS 5	0.00003	0.00013	0.00101	0.01783	0	0.01034	0.00279	\$ 5,692,800.00	\$ 170.78	\$ 740.06	\$ 5,749.73	\$ 101,502.62	\$-	\$ 58,863.55	\$ 15,882.91
AIS 6 (Fatality)	0	0	0	0	1	0	0	\$ 9,600,000.00	\$-	\$-	\$-	\$-	\$ 9,600,000.00	\$-	\$-
Sum (Prob)	1	1	1	1	1	1	1								
								TOTAL	\$ 3,234.82	\$ 63,854.50	\$ 125,049.89	\$ 459,120.29	\$ 9,600,000.00	\$ 174,029.57	\$ 132,245.28

See Appendix A. Basis of Calculations For Select Tables

3. State of Good Repair:

The proposed facility does not currently exist and the baseline does not include rail passenger service and thus potential users would use alternate modes of transportation with at least 80% very likely to drive automobiles

There will be a yearly maintenance cost associated with the new facilities that must be factored into the overall cost of the proposed action. This cost includes regular maintenance of normal wear items such as paint, HVAC equipment, lighting, door hardware, safety and pavement markings, and landscaping. The costs of repair due to vandalism must also be taken into account.

Longer term structural maintenance such as pavement replacement, stucco repair, roof replacement and concrete repair must be budgeted for though many of these items fall outside the 20 year window used for this analysis. A regular application of protective coatings and vigilant inspection and repair of small problems as they arise can greatly prolong the replacement of the large structural items well beyond their standard lives.

The cleaning of the facility is also factored in with the maintenance costs as is the operational cost of power, water and communications.

The rail and platform require a monthly inspection by Amtrak and will also require periodic maintenance.

While the maintenance costs for the may fluctuate from year to year it is important that the overall cost is budgeted for and money set aside during years of minimal maintenance costs for years when the costs exceed what is budgeted in a given year. The City will set up an exclusive fund for the Amtrak station operation and maintenance. Please see Table 6 and Table 7 for the projected yearly operation and maintenance costs detailing current, inflated and net present value costs. The total Operation and Maintenance Costs over 20 years are \$1,454,409.60 at 3% NPV and \$1,037,348.19 at 7% NPV.



Item	Cost (\$ 2015)	Interval (Every Years)	08 Ye	O&M Costs per Year (\$ 2015)		
One New Employee (Half of their time spent on maintenance and cleaning) ¹	\$ 25,000.00	1.00	\$	25,000.00		
Paving ²	\$ 54,409.60	20.00	\$	2,720.48		
Repaint Building ²	\$ 3,000.00	3.00	\$	1,000.00		
Pavement and Platform Markings ²	\$ 2,000.00	1.00	\$	2,000.00		
HVAC Repair/Replacement ²	\$ 10,000.00	5.00	\$	2,000.00		
Crack Repair on Platform	\$ 1,000.00	1.00	\$	1,000.00		
General Building Maintenance	\$ 8,000.00	1.00	\$	8,000.00		
Energy Costs	\$ 6,000.00	1.00	\$	6,000.00		
Pocket Track Maintenance and Monthly Inspection	\$ 25,000.00	1.00	\$	25,000.00		
		Total	\$	72,720.48		

 Table 6 - Projected Yearly Operation and Maintenance Costs (\$2015)

¹ Public Works Technician II including total pay and benefits.

² Based on Construction Costs.

Pavement cost based

upon construction cost

of pavement 6.60/Sq.Ft.

minus \$1.00/Sq.Ft. for

base course as the base

course will not need

replacement.

³ These are estimated costs based similar O&M costs from similar sized buildings.



Year	O&M Costs	3	3% NPV Costs	7	% NPV Costs
2019	\$ -	\$	-	\$	-
2020	\$ 72,720.48	\$	72,720.48	\$	72,720.48
2021	\$ 74,902.09	\$	72,720.48	\$	70,001.96
2022	\$ 77,149.16	\$	72,720.48	\$	67,385.06
2023	\$ 79,463.63	\$	72,720.48	\$	64,865.99
2024	\$ 81,847.54	\$	72,720.48	\$	62,441.10
2025	\$ 84,302.97	\$	72,720.48	\$	60,106.85
2026	\$ 86,832.06	\$	72,720.48	\$	57,859.87
2027	\$ 89,437.02	\$	72,720.48	\$	55,696.88
2028	\$ 92,120.13	\$	72,720.48	\$	53,614.75
2029	\$ 94,883.73	\$	72,720.48	\$	51,610.46
2030	\$ 97,730.24	\$	72,720.48	\$	49,681.10
2031	\$ 100,662.15	\$	72,720.48	\$	47,823.86
2032	\$ 103,682.02	\$	72,720.48	\$	46,036.06
2033	\$ 106,792.48	\$	72,720.48	\$	44,315.08
2034	\$ 109,996.25	\$	72,720.48	\$	42,658.44
2035	\$ 113,296.14	\$	72,720.48	\$	41,063.73
2036	\$ 116,695.02	\$	72,720.48	\$	39,528.64
2037	\$ 120,195.87	\$	72,720.48	\$	38,050.94
2038	\$ 123,801.75	\$	72,720.48	\$	36,628.47
2039	\$ 127,515.80	\$	72,720.48	\$	35,259.18
Total	\$ 1,954,026.53	\$	1,454,409.60	\$	1,037,348.91

Table 7- Projected Yearly Operation and Maintenance Costs Factored for Inflation and Net Present Value

Note: O&M Costs were inflated 3% yearly.

4. Environmental Sustainability:

By providing convenient opportunities for residents and visitors alike to utilize rail passenger service with a local stop the proposed action will also reduce environmental impacts. Currently some residents and visitors must travel an average of 115 miles east or west to reach a city with scheduled air or rail passenger service. While there is bus service available it is not convenient with the scheduled rail passenger service. Bus service runs during the day. The California Zephyr runs through Elko and Salt Lake City between 9:30 pm and 3:00 am depending on location and direction. Most people who use this service choose to drive their personal car, rent a car or have someone else drive them to the station thus requiring two round trips by the driver.

The reduction in long distance automobile travel will reduce the emissions, specifically reducing CO_2 pollution which according to EPA contributes 82% of the greenhouse gasses thought to be a key factor in global warming. It is important to



note that Amtrak is already running the California Zephyr through West Wendover and therefore the emissions from the train will not appreciably change. The emissions of the automobile travel in the region will be slightly reduced.

The following table details the projected reduction in CO_2 emissions due to the lower VMT's if a rail passenger stop is constructed in West Wendover. The benefits of the projected CO_2 reduction has been monetized for 20 years and expressed as a 3% NPV. See Table 8 CO₂ Reduction Due to Reduced VMT's for calculation of CO_2 reduction due to reduced VMT's column 6 titled Baseline Vehicle Annual CO_2 (metric tons), column 7 titled Baseline Vehicle Annual 3% CO_2 Cost (\$) and column 8 3% NVP CO_2 Benefits. The resulting 20 year savings due to reduction of CO_2 emissions totals \$420,520.74 at 3% NPV.



Table 8 CO ₂ F	able 8 CO ₂ Reduction Due to Reduced VMT's													
1	2	3	4	5	6		7	8	9	10		11	12	13
Year	Annual Ridership Projections (Growth Rate =75%, 50%, 25%, 10%, and 5% Sliding Scale for first 5 years and 3% after year 2026)	Baseline Vehicle VMT (Annually)	Average Occupancy per vehicle	Baseline Vehicle Person- Miles of Travel (PMT) (Annually)	Baseline Vehicle Annual CO ₂ (metric tons)	Bas Vehicle 3% CO ₂	seline e Annual ₂ Cost (\$)	3% NPV CO₂ Benefits	Baseline Vehicle gallons per year	Average Cost per Gallon (Increase 5.766% yearly base on average inflation from years 1999 to 2015)	d B	Baseline Vehicle Annual Fuel Benefits (\$)	3% NPV Fuel Benefits	7% NPV Fuel Benefits
2020*	2,900	262,857	2.03	533,600	110	\$	5,745	\$ 5,745	31,168	\$ 3.390) \$	105,657	\$ 105,657	\$ 105,657
2021	5,075	460,000	2.03	933,800	193	\$	10,054	\$ 9,761	54,544	\$ 3.58	5 \$	195,560	\$ 189,864	\$ 182,766
2022	7,613	690,000	2.03	1,400,700	290	\$	15,661	\$ 14,762	81,817	\$ 3.792	2 \$	310,252	\$ 292,442	\$ 270,986
2023	9,516	862,500	2.03	1,750,875	363	\$	19,939	\$ 18,247	102,271	\$ 4.01	1 \$	410,175	\$ 375,368	\$ 334,825
2024	10,467	948,750	2.03	1,925,963	399	\$	22,332	\$ 19,842	112,498	\$ 4.242	2 \$	477,206	\$ 423,991	\$ 364,058
2025	10,991	996,188	2.03	2,022,261	419	\$	23,867	\$ 20,588	118,123	\$ 4.486	3 \$	529,955	\$ 457,144	\$ 377,851
2026	11,320	1,026,073	2.03	2,082,928	431	\$	25,014	\$ 20,949	121,666	\$ 4.74	5 \$	577,325	\$ 483,501	\$ 384,696
2027	11,660	1,056,855	2.03	2,145,416	444	\$	26,653	\$ 21,672	125,316	\$ 5.019	9 \$	628,929	\$ 511,377	\$ 391,665
2028	12,010	1,088,561	2.03	2,209,779	458	\$	27,910	\$ 22,033	129,076	\$ 5.308	3 \$	685,146	\$ 540,860	\$ 398,761
2029	12,370	1,121,218	2.03	2,276,072	471	\$	29,219	\$ 22,394	132,948	\$ 5.614	4 \$	746,387	\$ 572,044	\$ 405,985
2030	12,741	1,154,854	2.03	2,344,354	485	\$	30,581	\$ 22,755	136,937	\$ 5.938	3 \$	813,103	\$ 605,025	\$ 413,340
2031	13,123	1,189,500	2.03	2,414,685	500	\$	31,498	\$ 22,755	141,045	\$ 6.280) \$	885,782	\$ 639,908	\$ 420,829
2032	13,517	1,225,185	2.03	2,487,125	515	\$	33,473	\$ 23,478	145,276	\$ 6.642	2 \$	964,958	\$ 676,802	\$ 428,453
2033	13,922	1,261,941	2.03	2,561,739	530	\$	35,008	\$ 23,839	149,634	\$ 7.02	5 \$	1,051,210	\$ 715,823	\$ 436,215
2034	14,340	1,299,799	2.03	2,638,591	546	\$	36,605	\$ 24,200	154,123	\$ 7.430) \$	1,145,172	\$ 757,094	\$ 444,118
2035	14,770	1,338,793	2.03	2,717,749	563	\$	38,265	\$ 24,561	158,747	\$ 7.85	9 \$	1,247,533	\$ 800,744	\$ 452,163
2036	15,213	1,378,956	2.03	2,799,282	580	\$	39,993	\$ 24,922	163,509	\$ 8.312	2 \$	1,359,044	\$ 846,911	\$ 460,355
2037	15,670	1,420,325	2.03	2,883,260	597	\$	42,387	\$ 25,645	168,415	\$ 8.79	1 \$	1,480,522	\$ 895,740	\$ 468,695
2038	16,140	1,462,935	2.03	2,969,758	615	\$	44,273	\$ 26,006	173,467	\$ 9.298	3 \$	1,612,858	\$ 947,384	\$ 477,186
2039	16,624	1,506,823	2.03	3,058,851	633	\$	46,235	\$ 26,367	178,671	\$ 9.834	4 \$	1,757,023	\$ 1,002,005	\$ 485,831
					Totals	\$	538,480	\$ 420,521			\$	16,983,795	\$ 11,839,684	\$ 7,704,436

* Note: Construction is anticipated to be complete by the year 2020; therefore, cost savings and reductions will begin at this time and are projected 20 years into the future.

See Appendix A. Basis of Calculations For Select Tables

5. Summation of Cost/ Benefit:

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The West Wendover Rail Passenger Service - Amtrak Station Project provides benefits over 20 years equal to or greater than the associated cost to construct and maintain the project. The net benefit at 3% NPV is \$5,389,582.82. At 7% NPV the net benefit is \$1,322,852.97. Table 9 provides a Summation of Benefits and Costs.

Long Term Outcomes	Benefits (3% NPV)	Benefits (7% NPV)	Costs (3% NPV)	Costs (7% NPV)
Quality of Life and				
Economic				
Competitiveness	\$ 11,839,683.62	\$ 7,704,436.13		
(VMT Reduction and				
Fuel Savings)				
Safety (Accident				
Reduction Value of	\$ 1,083,484.42	\$ 734,941.36		
Injuries)				
State of Good Repair				
(Operation and			\$ 1,454,409.60	\$ 1,037,348.91
Maintenance Costs)				
Environmental				
Stability (CO ₂	\$ 420,520.74	\$ 420,520.74		
Reduction)				
Construction Costs			\$ 6,499,696.36	\$ 6,499,696.36
Totals	\$ 13,343,688.78	\$ 8,859,898.23	\$ 7,954,105.96	\$ 7,537,045.27

able 9 – Summation	of Benefits	and Costs
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Net Benefit @ 3% NPV minus Net Cost @ 3% NPV	\$ 5,389,582.82
Net Benefit @ 7% NPV minus Net Cost @ 7% NPV	\$ 1,322,852.97

Ratio of Net	
Benefit @ 3%	1.60
NPV to Net	1.68
Cost @ 3% NPV	
Ratio of Net	
Benefit @ 7%	1 10
NPV to Net	1.18
Cost @ 7% NPV	



WEST WENDOVER RAIL PASSENGER STATION – AMTRAK

USDOT FY2016 TIGER APPLICATION BENEFIT COST ANALYSIS

Appendix A. Basis of Calculations for Select Tables

Basis of Calculations for Table 3 Estimated Fuel Savings Due to Reduction in VMT's and Table 8 CO2 Reduction Due to Reduced VMT's

West Coast less California Gasoline and Diesel Retail Prices

(This data has been provided because data at link updates weekly)

Basis of Calculations for Fuel and CO2 Projections

Basis of Calculations for Table 4 Projected Yearly Reduction of Accidents and Associated Value of a Statistical Life and Injuries Savings

Basis of Calculations for Table 5 AIS Value of a Statistical Life and Injuries Matrix

Basis of Calc	ulations for Table 3 Es	timated Fuel Savings Due to Reduction in VMT's and Table 8 $\mathrm{CO}_{\!2}$ Reduc	tion Due to Reduced VMT's
	Purpose	Equation	Data
Column 1	Year	No Equation	20 Years Beginning at Completion of Construction of the Project
Column 2	Annual Ridership Projections	[Previous Years Projected Ridership x (1+Projected Percentage)] Projected Percentages Years 1 through 5: 75%, 50%, 25%, 10%, 5%, and 3% for the remaining 15 years.	Data carried over form Table 2 Projected Ridership.
Column 3	Projected Vehicle Miles Traveled (VMT's)	VMT=Annual Ridership x 0.80 (80% of Projected Rail Passengers Use Private Automobile to Visit or Travel From West Wendover 115 Miles to Nearest Rail and Commercial Airport) x Segment Length (230 Miles)	See BCA Section C. Basis of Calculations for explanation for 80% private automobile use. Segment Length (230 Miles) = Roundtrip travel length between West Wendover, Nevada Elko Nevada, or Salt Lake City, Utah, the nearest locations with access to rail passenger service and scheduled air service.
Column 4	Average Vehicle Occupancy	No Equation	2.03 persons per vehicle found in the <u>2003 Nevada Department of Transportation</u> <u>Vehicle Occupancy Monitoring Program</u> (Average Vehicle Occupancy from 2001 to 2003, Page 11, East Elko Interchange to NV/UT Stateline).
Column 5	Annual Vehicle Person-Miles of Travel (PMT)	PMT= VMT (Column 3) x Average Vehicle Occupancy (Column 4)	Multiplication of data found in Spreadsheet.
Column 6	CO ₂ emissions (metric tons CO ₂ E / year)	Tons/Year = 8.887*10-3 metric tons CO_2 /gallon gasoline x VMT car/truck average (Row 3) * 1/21.4 miles per gallon car/truck average * 1 CO_2 , CH_4 , and N2O/0.988 CO_2	Equation Found in GHG Equivalencies Calculator-Calculations and References - Energy and the Environment - US EPA: Miles driven by the average passenger vehicle: Calculation https://www.epa.gov/energy/ghg-equivalencies-calculator- calculations-and-references
Column 7	3% Social Cost of CO_2	$ = tons of CO_2 \times CO_2 cost per metric ton $	TIGER and FASTLANE Benefit Cost Analysis (BCA) Resource Guide 2016, 3% Social Cost of CO ₂ Table Page 7. https://www.transportation.gov/sites/dot.gov/files/docs/BCA%20Resource%20Gui de%202016.pdf
Column 8	3% Net Present Value (NPV) of 3% Social Cost of Carbon	3% NPV = Social Cost of CO ₂ / ((1+0.03) x number of years)	Standard Net Present Value equation applied to Social Cost of Carbon
Column 9	Vehicle Fuel Gallons Saved Per Year	Gallons = 1/21.4 miles per gallon car/truck average x 230 miles traveled x ridership projection (Column 2)	US Department of Transportation, Federal Highway Administration, Annual Vehicle Distance Traveled in Miles and Related Data - 2014 (1) by Highway Category and Vehicle Type Table VM-1 Second to bottom Row 2014 Average Miles Traveled per Gallon of Fuel Consumed Column 9 All Light Duty Vehicles http://www.fhwa.dot.gov/policyinformation/statistics/2014/vm1.cfm
Column 10	Average Fuel Cost Per Gallon	\$/Gallon = Previous years fuel price + (Previous years fuel price x average inflation price for fuel (5.766%))	The fuel prices used to determine the average inflation price for fuel come from the annual West Coast Less California Regular Gasoline Prices, year over year percentage change averaged for years 1999 to 2015. Prices found at eia US Energy Information Administration: http://www.eia.gov/dnav/pet/pet_pri_gnd_dcus_r5xca_w.htm Download Series History XLS File button top of table on left hand side. Attached spreadsheet used for calculations in Appendix A. as data updates weekly. See Attached tables for Average Yearly Fuel Price Inflation 1999 to 2015 and Fuel Price Projection
Column 11	Annual Fuel Savings Benefit	\$ = Vehicle Fuel Gallons Saved Per Year (Column 9) x Average Fuel Cost Per Gallon for Same Year (Column 10)	Multiplication of data found in Spreadsheet.
Column 12	3% Net Present Value (NPV) of Fuel Savings	3% NPV = Fuel Savings \$ (Column 11) / ((1+0.03) x number of years)	Standard Net Present Value equation applied to Fuel Savings
Column 13	7% Net Present Value (NPV) of Fuel Savings	7% NPV = Fuel Savings \$ (Column 11) / ((1+0.07) x number of years)	Standard Net Present Value equation applied to Fuel Savings

Workbook Contents

West Coast less California Gasoline and Diesel Retail Prices

Click worksheet name or tab at bottom for data

Worksheet Name	Description	# Of Series	Frequency	Latest Data for
Data 1	West Coast less California Gasoline and Diesel Retail Prices	14	Weekly	4/11/2016
Release Date: Next Release Date:	4/11/2016 4/18/2016			
Excel File Name: Available from Web Page: Source: For Help, Contact:	pet_pri_gnd_dcus_r5xca_w.xls http://www.eia.gov/dnav/pet/pet_pri_gnd_dcus_r5xca_w.htm Energy Information Administration infoctr@eia.gov (202) 586-8800			

Back to Contents Data 1: West Coast less California Gasoline and Diesel Retail Prices

	EMM_EPM0_PTE_R5XC		
Sourcekey	A_DPG		
	Weekly West Coast		
	(PADD 5) Except		Calculated
	California All Grades	Calculated	Percent
	All Formulations	Average	Change
	Retail Gasoline	Yearly Price	Year over
		Dellara por	Veer
			Tear
Date	Gallon)	Gallon)	(Percent)
May 18, 1998	1.2		
May 25, 1998	1.208		
Jun 01, 1998	1.205		
Jun 08, 1998	1.2		
Jun 15, 1998	1.199		
Jun 22, 1998	1.198		
Jun 29, 1998	1,195		
Jul 06, 1998	1 191		
Jul 13 1998	1 19		
	1 188		
	1 185		
	1.105		
Aug 03, 1996	1.170		
Aug 10, 1998	1.177		
Aug 17, 1998	1.176		
Aug 24, 1998	1.175		
Aug 31, 1998	1.172		
Sep 07, 1998	1.167		
Sep 14, 1998	1.163		
Sep 21, 1998	1.163		
Sep 28, 1998	1.166		
Oct 05, 1998	1.164		
Oct 12 1998	1 161		
Oct 19, 1998	1 157		
Oct 26, 1008	1.157		
Nov 02, 1990	1.150		
Nov 02, 1990	1.155		
Nov 09, 1996	1.13 1.45		
NOV 10, 1998	1.15		
NOV 23, 1998	1.146		
Nov 30, 1998	1.139		
Dec 07, 1998	1.135		
Dec 14, 1998	1.128		
Dec 21, 1998	1.118		
Dec 28, 1998	1.115	Not Use Incon	nplete Data
Jan 04, 1999	1.115		
Jan 11, 1999	1.108		
Jan 18, 1999	1.102		
Jan 25, 1999	1.099		
Feb 01, 1999	1.088		
Feb 08 1999	1 079		
Feb 15 1999	1 071		
Feb 22 1000	1 064		
Mar 01 1000	1.004		
Mar 09, 1000	1.005		
Mar 15, 1000	1.098		
Mar 00, 1999	1.133		
Mar 22, 1999	1.169		
Mar 29, 1999	1.289		
Apr 05, 1999	1.39		
Apr 12, 1999	1.444		
Apr 19, 1999	1.44		
Apr 26, 1999	1.427		
May 03, 1999	1.412		
May 10, 1999	1.399		
May 17, 1999	1.387		
May 24, 1999	1.364		
May 31, 1999	1.343		
Jun 07, 1999	1 329		
Jun 14 1999	1 332		
Jun 21, 1999	1 355		
,			

Jun 28, 1999	1.36
Jul 05, 1999	1.359
Jul 12, 1999	1.371
Jul 19, 1999	1.4
Jul 26, 1999	1.423
Aug 02, 1999	1.43
Aug 09, 1999	1.443
Aug 16, 1999	1.449
Aug 23, 1999	1.448
Aug 30, 1999	1.443
Sep 06, 1999	1.434
Sep 13, 1999	1.428
Sep 20, 1999	1.418
Sep 27, 1999	1.407
Oct 04, 1999	1.4
Oct 11, 1999	1.4
Oct 18, 1999	1.397
Oct 25, 1999	1.39
Nov 01, 1999	1.385
Nov 08, 1999	1.376
Nov 15, 1999	1.376
Nov 22, 1999	1.381

Nov 29, 1999	1.387		
Dec 06, 1999	1.397		
Dec 13, 1999	1.394		
Dec 20, 1999	1.39		
Dec 27, 1999	1.389	1.326480769	
Jan 03, 2000	1.389		
Jan 10, 2000	1.386		
Jan 17, 2000	1.385		
Jan 24, 2000	1 391		
Jan 21, 2000	1 400		
Jan 31, 2000	1.400		
Feb 07, 2000	1.413		
Feb 14, 2000	1.419		
Feb 21, 2000	1.448		
Feb 28, 2000	1.5		
Mar 06, 2000	1.561		
Mar 13, 2000	1.623		
Mar 20, 2000	1.691		
Mar 27, 2000	1 704		
Apr 02, 2000	1.704		
Apr 03, 2000	1.703		
Apr 10, 2000	1.000		
Apr 17, 2000	1.671		
Apr 24, 2000	1.655		
May 01, 2000	1.636		
May 08, 2000	1.624		
May 15, 2000	1.61		
May 22, 2000	1.604		
May 29, 2000	1 596		
lup 05, 2000	1.500		
Juli 05, 2000	1.091		
Jun 12, 2000	1.591		
Jun 19, 2000	1.591		
Jun 26, 2000	1.608		
Jul 03, 2000	1.643		
Jul 10. 2000	1.664		
Jul 17, 2000	1 668		
	1 665		
	1.000		
Jul 31, 2000	1.000		
Aug 07, 2000	1.652		
Aug 14, 2000	1.653		
Aug 21, 2000	1.662		
Aug 28, 2000	1.68		
Sep 04, 2000	1.714		
Sep 11, 2000	1.738		
Sep 18, 2000	1 742		
Sop 25, 2000	1.742		
	1 / 44		
Oct 02, 2000	4 744		
Oct 02, 2000	1.741		
Oct 02, 2000 Oct 09, 2000	1.741 1.742		
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000	1.741 1.742 1.738		
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000	1.741 1.742 1.738 1.733		
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000	1.741 1.742 1.738 1.733 1.733		
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000	1.741 1.742 1.738 1.733 1.733 1.725		
Oct 02, 2000 Oct 09, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000	1.741 1.742 1.738 1.733 1.733 1.725 1.715		
Oct 02, 2000 Oct 09, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702		
Oct 02, 2000 Oct 09, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702		
Oct 02, 2000 Oct 09, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 27, 2000	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694		
Oct 02, 2000 Oct 09, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683		
Oct 02, 2000 Oct 09, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Nov 06, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665		
Oct 02, 2000 Oct 09, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Nov 06, 2000 Nov 13, 2000 Nov 13, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 18, 2000	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641		
Oct 02, 2000 Oct 09, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 18, 2000 Dec 25, 2000	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 27, 2000 Dec 14, 2000 Dec 11, 2000 Dec 18, 2000 Dec 25, 2000 Jan 01, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.602	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 27, 2000 Dec 11, 2000 Dec 18, 2000 Dec 25, 2000 Jan 01, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.602 1.588	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 27, 2000 Dec 11, 2000 Dec 18, 2000 Dec 25, 2000 Jan 01, 2001 Jan 15, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.602 1.588 1.569	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 18, 2000 Dec 25, 2000 Jan 01, 2001 Jan 08, 2001 Jan 15, 2001 Jan 22, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.602 1.588 1.569 1.553	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 18, 2000 Dec 25, 2000 Jan 01, 2001 Jan 15, 2001 Jan 22, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.665 1.641 1.623 1.602 1.588 1.569 1.553 1.542	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Nov 06, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 11, 2000 Dec 18, 2000 Dec 25, 2000 Jan 01, 2001 Jan 08, 2001 Jan 22, 2001 Jan 29, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.602 1.588 1.569 1.553 1.542 1.542	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 14, 2000 Dec 18, 2000 Dec 25, 2000 Jan 01, 2001 Jan 08, 2001 Jan 22, 2001 Jan 29, 2001 Feb 05, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.602 1.588 1.569 1.553 1.542 1.546	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 15, 2001 Jan 22, 2001 Jan 29, 2001 Feb 05, 2001 Feb 12, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.602 1.588 1.569 1.553 1.542 1.564	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 08, 2001 Jan 22, 2001 Jan 29, 2001 Feb 05, 2001 Feb 12, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.602 1.588 1.569 1.553 1.542 1.546 1.564 1.578	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 18, 2000 Dec 25, 2000 Jan 01, 2001 Jan 15, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 19, 2001 Feb 26, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.602 1.588 1.569 1.553 1.542 1.546 1.578 1.583	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 18, 2000 Dec 25, 2000 Jan 01, 2001 Jan 15, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001	1.741 1.742 1.738 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.602 1.588 1.569 1.553 1.542 1.546 1.542 1.546 1.578 1.583 1.583	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 18, 2000 Dec 25, 2000 Jan 01, 2001 Jan 15, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001	1.741 1.742 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.602 1.588 1.569 1.553 1.542 1.546 1.578 1.583 1.588 1.583 1.588 1	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 18, 2000 Dec 18, 2000 Dec 25, 2000 Jan 01, 2001 Jan 15, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001	1.741 1.742 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.602 1.588 1.569 1.553 1.542 1.546 1.578 1.583 1.583 1.588 1.583 1.588 1.583 1.588 1.583 1.588 1	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 15, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001 Mar 19, 2001 Mar 26, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.602 1.588 1.569 1.553 1.542 1.546 1.578 1.583 1.583 1.583 1.585 1.581	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 11, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 15, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001 Mar 26, 2001 Mar 26, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.602 1.588 1.569 1.553 1.542 1.546 1.578 1.583 1.583 1.583 1.585 1.581 1	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 23, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 11, 2000 Dec 14, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 15, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001 Mar 26, 2001 Mar 26, 2001 Apr 02, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.602 1.588 1.569 1.553 1.542 1.546 1.578 1.583 1.583 1.583 1.585 1.581 1.58	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 15, 2001 Jan 29, 2001 Feb 05, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001 Mar 26, 2001 Mar 26, 2001 Apr 02, 2001 Apr 09, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.569 1.553 1.542 1.569 1.553 1.542 1.546 1.578 1.583 1.583 1.585 1.581 1.586	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 22, 2001 Jan 29, 2001 Feb 05, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001 Mar 26, 2001 Mar 26, 2001 Apr 09, 2001 Apr 16, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.602 1.588 1.569 1.553 1.542 1.546 1.578 1.583 1.583 1.583 1.585 1.581 1.586 1.593	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 15, 2001 Jan 29, 2001 Feb 05, 2001 Feb 12, 2001 Feb 19, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001 Mar 19, 2001 Mar 26, 2001 Apr 09, 2001 Apr 09, 2001 Apr 16, 2001 Apr 23, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.665 1.641 1.623 1.665 1.641 1.623 1.569 1.553 1.542 1.546 1.564 1.578 1.583 1.583 1.585 1.581 1.586 1.593 1.598	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 15, 2001 Jan 29, 2001 Feb 05, 2001 Feb 12, 2001 Feb 19, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001 Mar 19, 2001 Mar 26, 2001 Apr 09, 2001 Apr 09, 2001 Apr 16, 2001 Apr 30, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.665 1.641 1.623 1.665 1.641 1.623 1.569 1.553 1.542 1.546 1.564 1.578 1.588 1.583 1.585 1.581 1.586 1.593 1.598 1.612	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 15, 2001 Jan 29, 2001 Feb 05, 2001 Feb 12, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 19, 2001 Mar 19, 2001 Mar 26, 2001 Apr 09, 2001 Apr 09, 2001 Apr 16, 2001 Apr 30, 2001 May 07, 2001	1.741 1.742 1.733 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.569 1.563 1.569 1.553 1.542 1.546 1.564 1.578 1.588 1.583 1.583 1.585 1.581 1.586 1.583 1.585 1.581 1.586 1.593 1.593 1.612 1.626	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 08, 2001 Jan 15, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001 Mar 19, 2001 Mar 26, 2001 Apr 09, 2001 Apr 16, 2001 Apr 30, 2001 May 07, 2001 May 07, 2001	1.741 1.742 1.738 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.569 1.563 1.569 1.553 1.542 1.546 1.564 1.578 1.588 1.583 1.583 1.583 1.585 1.581 1.585 1.581 1.586 1.593 1.598 1.612 1.626 1.636	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 8, 2001 Jan 15, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 19, 2001 Mar 26, 2001 Mar 26, 2001 Apr 09, 2001 Apr 30, 2001 Apr 30, 2001 May 07, 2001 May 07, 2001 May 14, 2001 May 21, 2001	1.741 1.742 1.733 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.569 1.569 1.553 1.542 1.569 1.542 1.546 1.564 1.578 1.583 1.584 1.583 1.583 1.583 1.583 1.583 1.583 1.584 1.583 1.593 1.626 1.626 1.636 1.634	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 15, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001 Mar 26, 2001 Mar 26, 2001 Apr 09, 2001 Apr 23, 2001 Apr 30, 2001 May 07, 2001 May 07, 2001 May 14, 2001 May 21, 2001	1.741 1.742 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.569 1.569 1.569 1.564 1.564 1.578 1.583 1.583 1.583 1.583 1.585 1.581 1.585 1.581 1.585 1.581 1.585 1.581 1.586 1.593 1.598 1.612 1.626 1.644 1.623 1.626 1.641 1.588 1.583 1.585 1.581 1.586 1.593 1.598 1.612 1.626 1.644 1.623 1.626 1.644 1.598 1.626 1.644 1.623 1.598 1.598 1.642 1.626 1.644 1.626 1.644 1.626 1.644 1.626 1.644 1.626 1.644 1.626 1.644 1.626 1.644 1.626 1.644 1.626 1.644 1.626 1.644 1.626 1.644 1.626 1.644 1.626 1.644 1.626 1.644 1.662	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 25, 2000 Jan 01, 2001 Jan 15, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001 Mar 26, 2001 Mar 19, 2001 Mar 26, 2001 Apr 09, 2001 Apr 30, 2001 Apr 30, 2001 May 07, 2001 May 07, 2001 May 21, 2001 May 28, 2001 Jun 04, 2001	1.741 1.742 1.733 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.569 1.569 1.569 1.569 1.564 1.564 1.578 1.583 1.583 1.585 1.581 1.585 1.581 1.585 1.581 1.585 1.581 1.585 1.581 1.585 1.581 1.586 1.593 1.598 1.612 1.626 1.644 1.623 1.626 1.641 1.583 1.585 1.581 1.585 1.581 1.586 1.593 1.598 1.626 1.644 1.626 1.644 1.626 1.644 1.626 1.644 1.663 1.644	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 15, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001 Mar 26, 2001 Apr 02, 2001 Apr 03, 2001 Apr 30, 2001 Apr 30, 2001 May 07, 2001 May 07, 2001 May 14, 2001 May 28, 2001 Jun 04, 2001	1.741 1.742 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.569 1.569 1.553 1.542 1.569 1.564 1.578 1.583 1.583 1.583 1.585 1.581 1.585 1.581 1.585 1.581 1.585 1.581 1.583 1.586 1.593 1.626 1.644 1.663 1.644 1.663 1.666 1.666	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 14, 2000 Dec 14, 2000 Dec 14, 2000 Dec 14, 2000 Dec 18, 2000 Dec 25, 2000 Jan 01, 2001 Jan 22, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 19, 2001 Mar 26, 2001 Apr 02, 2001 Apr 03, 2001 Apr 30, 2001 Apr 30, 2001 May 07, 2001 May 14, 2001 May 28, 2001 Jun 04, 2001 Jun 11, 2001	1.741 1.741 1.742 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.569 1.553 1.542 1.569 1.553 1.542 1.546 1.564 1.578 1.588 1.583 1.584 1.583 1.584 1.583 1.585 1.583 1.585 1.583 1.586 1.593 1.626 1.636 1.644 1.663 1.666 1.666 1.666	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 15, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 26, 2001 Mar 26, 2001 Mar 26, 2001 Apr 09, 2001 Apr 09, 2001 Apr 30, 2001 May 07, 2001 May 07, 2001 May 14, 2001 May 28, 2001 Jun 11, 2001 Jun 14, 2001 Jun 13, 2001	1.741 1.741 1.742 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.569 1.553 1.542 1.569 1.553 1.542 1.588 1.583 1.584 1.583 1.586 1.626 1.644 1.626 1.644 1.663 1.667 1.667 1.658	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 15, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001 Mar 26, 2001 Mar 26, 2001 Mar 26, 2001 Apr 09, 2001 Apr 30, 2001 May 07, 2001 May 07, 2001 May 14, 2001 May 21, 2001 May 28, 2001 Jun 11, 2001 Jun 25, 2001	1.741 1.741 1.742 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.569 1.553 1.542 1.569 1.553 1.542 1.564 1.578 1.583 1.584 1.626 1.626 1.644 1.663 1.667 1.658 1.646	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 25, 2000 Jan 01, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 26, 2001 Mar 26, 2001 Mar 26, 2001 Apr 09, 2001 Apr 09, 2001 Apr 30, 2001 May 07, 2001 May 07, 2001 May 07, 2001 May 21, 2001 May 28, 2001 Jun 11, 2001 Jun 25, 2001 Jun 25, 2001 Jun 25, 2001	1.741 1.741 1.742 1.733 1.733 1.725 1.715 1.702 1.694 1.683 1.665 1.641 1.623 1.569 1.553 1.542 1.569 1.553 1.542 1.564 1.578 1.583 1.584 1.626 1.626 1.636 1.644 1.663 1.667 1.658 1.646 1.638 1.646	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001 Mar 26, 2001 Mar 26, 2001 Mar 26, 2001 Apr 09, 2001 Apr 30, 2001 May 07, 2001 May 07, 2001 May 07, 2001 May 21, 2001 May 22, 2001 Jun 11, 2001 Jun 12, 2001 Jun 13, 2001 Jun 25, 2001 Jul 02, 2001 Jul 09, 2001	1.741 1.741 1.742 1.733 1.733 1.725 1.715 1.702 1.694 1.665 1.641 1.623 1.569 1.553 1.542 1.569 1.553 1.542 1.564 1.578 1.583 1.586 1.626 1.636 1.644 1.636 1.667 1.658 1.646 1.633 1.609	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 25, 2000 Jan 01, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001 Mar 26, 2001 Mar 26, 2001 Mar 26, 2001 Apr 09, 2001 Apr 30, 2001 Apr 30, 2001 May 07, 2001 May 14, 2001 May 21, 2001 May 28, 2001 Jun 11, 2001 Jun 25, 2001 Jul 02, 2001 Jul 09, 2001 Jul 09, 2001 Jul 09, 2001	1.741 1.741 1.742 1.733 1.733 1.725 1.715 1.702 1.694 1.665 1.641 1.623 1.569 1.553 1.542 1.569 1.553 1.542 1.564 1.578 1.583 1.586 1.626 1.636 1.644 1.636 1.644 1.636 1.644 1.636 1.646 1.636 1.646 1.638 1.646 1.638 1.609 1.585	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 15, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 12, 2001 Feb 19, 2001 Feb 26, 2001 Mar 05, 2001 Mar 12, 2001 Mar 26, 2001 Mar 26, 2001 Mar 19, 2001 Mar 26, 2001 Apr 09, 2001 Apr 30, 2001 Apr 30, 2001 May 14, 2001 May 21, 2001 May 21, 2001 May 28, 2001 Jun 11, 2001 Jun 25, 2001 Jul 09, 2001 Jul 09, 2001 Jul 09, 2001 Jul 16, 2001 Jul 23, 2001	1.741 1.741 1.742 1.733 1.733 1.725 1.715 1.702 1.694 1.665 1.641 1.623 1.569 1.553 1.542 1.569 1.553 1.542 1.564 1.578 1.583 1.584 1.666 1.636 1.644 1.636 1.644 1.663 1.667 1.658 1.646 1.636 1.646 1.636 1.646 1.637 1.658 1.646 1.636 1.646 1.638 1.649 1	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 06, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 27, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 15, 2000 Jan 01, 2001 Jan 15, 2001 Jan 29, 2001 Feb 12, 2001 Mar 05, 2001 Mar 12, 2001 Mar 26, 2001 Mar 19, 2001 Mar 26, 2001 Mar 27, 2001 Apr 09, 2001 Apr 30, 2001 May 07, 2001 May 14, 2001 May 21, 2001 May 22, 2001 Jun 11, 2001 Jun 25, 2001 Jul 09, 2001 Jul 09, 2001 Jul 09, 2001 Jul 23, 2001 Jul 23, 2001	1.741 1.741 1.742 1.733 1.733 1.725 1.715 1.702 1.694 1.665 1.641 1.623 1.569 1.553 1.542 1.569 1.553 1.542 1.564 1.578 1.583 1.586 1.626 1.636 1.644 1.636 1.644 1.636 1.646 1.636 1.646 1.636 1.646 1.637 1.658 1.646 1.638 1.649 1.526 1.549 1.526	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 13, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 20, 2000 Nov 20, 2000 Dec 04, 2000 Dec 11, 2000 Dec 18, 2000 Dec 18, 2000 Dec 18, 2001 Jan 01, 2001 Jan 15, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 26, 2001 Mar 26, 2001 Mar 28, 2001 Mar 29, 2001 Apr 09, 2001 Apr 30, 2001 May 07, 2001 May 14, 2001 May 21, 2001 May 28, 2001 Jun 11, 2001 Jun 25, 2001 Jun 25, 2001 Jul 09, 2001 Jul 09, 2001 Jul 09, 2001 Jul 30, 2001	1.741 1.741 1.742 1.733 1.733 1.725 1.715 1.702 1.694 1.665 1.641 1.623 1.569 1.553 1.542 1.564 1.564 1.578 1.583 1.584 1.583 1.593 1.593 1.593 1.593 1.666 1.636 1.637 1.658 1.609 1.525 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1.526 1.549 1	1.625076923	1.225104
Oct 02, 2000 Oct 09, 2000 Oct 16, 2000 Oct 30, 2000 Nov 13, 2000 Nov 13, 2000 Nov 20, 2000 Nov 20, 2000 Nov 20, 2000 Nov 20, 2000 Dec 04, 2000 Dec 11, 2000 Dec 13, 2000 Dec 14, 2000 Dec 18, 2000 Dec 18, 2000 Dec 25, 2000 Jan 01, 2001 Jan 22, 2001 Jan 22, 2001 Jan 29, 2001 Feb 12, 2001 Feb 12, 2001 Feb 26, 2001 Mar 05, 2001 Mar 26, 2001 Mar 26, 2001 Mar 26, 2001 Mar 28, 2001 May 07, 2001 May 07, 2001 May 14, 2001 May 21, 2001 May 28, 2001 Jun 11, 2001 Jun 25, 2001 Jun 12, 2001 Jun 25, 2001 Jul 09, 2001 Jul 09, 2001 Jul 09, 2001 Jul 09, 2001 Jul 16, 2001	1.741 1.741 1.742 1.733 1.733 1.725 1.715 1.702 1.694 1.665 1.641 1.623 1.569 1.553 1.542 1.546 1.564 1.578 1.583 1.584 1.583 1.593 1.593 1.598 1.666 1.636 1.636 1.644 1.636 1.636 1.643 1.663 1.644 1.636 1.644 1.633 1.609 1.526 1.527 1.526 1.527 1.526 1	1.625076923	1.225104

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Aug 27, 2001	1.536		
Sep 03, 2001	1.623		
Sep 10, 2001	1.658		
Sep 17, 2001	1.686		
Sep 24, 2001	1.674		
Oct 01, 2001	1.637		
Oct 08, 2001	1.61		
Oct 15, 2001	1.575		
Oct 22, 2001	1.546		
Oct 29, 2001	1.52		
Nov 05, 2001	1.491		
Nov 12, 2001	1.455		
Nov 19, 2001	1.409		
Nov 26, 2001	1.368		
Dec 03, 2001	1.32		
Dec 10, 2001	1.278		
Dec 17, 2001	1.244		
Dec 24, 2001	1.224		
Dec 31, 2001	1.224	1.549660377	0.953592
Jan 07, 2002	1.229		
Jan 14, 2002	1.229		
Jan 21, 2002	1.225		
Jan 28, 2002	1.228		
Feb 04, 2002	1.227		
Feb 11, 2002	1.226		
Feb 18, 2002	1.218		
Feb 25, 2002	1.216		
Mar 04, 2002	1.227		
Mar 11, 2002	1.272		
Mar 18, 2002	1.322		
Mar 25, 2002	1.379		
Apr 01, 2002	1.418		
Apr 08, 2002	1.445		
Apr 15, 2002	1.457		
Apr 22, 2002	1.462		
Apr 29, 2002	1.461		
May 06, 2002	1.462		
May 10, 2002	1.400		
May 27, 2002	1.450		
1002 1002 1002 1002 1002	1.405		
Jun 10, 2002	1.400		
lun 17 2002	1.405		
Jun 24, 2002	1.400		
Jul 01 2002	1.502		
Jul 08, 2002	1.502		
Jul 15, 2002	1 498		
Jul 22 2002	1 498		
Jul 29, 2002	1,495		
Aug 05, 2002	1,496		
Aug 12, 2002	1.494		
Aug 19, 2002	1.487		
Aug 26, 2002	1.484		
Sep 02, 2002	1.48		
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Oct 28, 2002	1.428		
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Nov 25, 2002	1.434		
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Jan 13, 2003	1.435		
Jan 20, 2003	1.448		
Jan 27, 2003	1.478		
Feb 03, 2003	1.527		
Feb 10, 2003	1.598		
Feb 17, 2003	1.699		
Feb 24, 2003	1.76		
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war 17, 2003	1.88		
wai 17,2003 Mar 24,2003	1.909		
iviai 24, 2003 Mar 21, 2002	1.903		
IVIAI 31, 2003	1.881		
Apr 11, 2003	1.86		
Api 14, 2003	4 007		
Apr 04 0000	1.827		
Apr 21, 2003	1.827 1.793		
Apr 21, 2003 Apr 28, 2003	1.827 1.793 1.764		

May 12, 2003 May 26, 2003 Jun 02, 2003 Jun 09, 2003 Jun 16, 2003 Jun 23, 2003 Jun 23, 2003 Jul 07, 2003 Jul 21, 2003 Jul 21, 2003 Aug 04, 2003 Aug 04, 2003 Aug 18, 2003 Aug 18, 2003 Sep 01, 2003 Sep 02, 2003 Sep 02, 2003 Sep 22, 2003 Sep 22, 2003 Oct 06, 2003 Oct 20, 2003 Oct 20, 2003 Oct 20, 2003 Oct 20, 2003 Oct 20, 2003 Oct 27, 2003 Nov 03, 2003 Nov 17, 2003 Nov 03, 2003 Nov 17, 2003 Nov 24, 2003 Dec 01, 2003 Dec 01, 2003 Dec 02, 2003 Dec 29, 2003 Jan 05, 2004 Jan 12, 2004 Jan 12, 2004 Jan 26, 2004 Feb 02, 2004 Feb 02, 2004 Feb 16, 2004 Feb 23, 2004 Mar 01, 2004 Mar 02, 2004 Mar 15, 2004 Mar 29, 2004 Apr 12, 2004 Mar 29, 2004 Apr 12, 2004 Mar 12, 2004 Mar 29, 2004 Apr 12, 2004 Mar 20, 2004 Apr 12, 2004 Mar 31, 2004 Jun 21, 2004 Jun 21, 2004 Jun 21, 2004 Jun 22, 2004 Apr 12, 2004 Apr 26, 2004 Apr 26, 2004 Apr 26, 2004 Apr 26, 2004 Apr 26, 2004 Apr 26, 2004 Apr 20, 2004 Apr 2	$\begin{array}{c} 1.691\\ 1.657\\ 1.63\\ 1.624\\ 1.631\\ 1.696\\ 1.702\\ 1.69\\ 1.693\\ 1.68\\ 1.663\\ 1.649\\ 1.657\\ 1.701\\ 1.967\\ 1.922\\ 1.856\\ 1.703\\ 1.703\\ 1.767\\ 1.922\\ 1.856\\ 1.677\\ 1.922\\ 1.813\\ 1.767\\ 1.669\\ 1.657\\ 1.633\\ 1.611\\ 1.597\\ 1.682\\ 1.611\\ 1.597\\ 1.682\\ 1.703\\ 1.611\\ 1.917\\ 1.938\\ 2.022\\ 2.038\\ 2.067\\ 2.266\\ 2.267\\ 2.266\\ 2.267\\ 2.266\\ 2.267\\ 2.266\\ 2.046\\ 2.029\\ 2.038\\ 2.066\\ 2.046\\ 2.029\\ 2.031\\ 2.065\\ 2.04\\ 2.031\\ 2.065\\ 2.04\\ 2.057\\ 2.031\\ 2.065\\ 2.04\\ 1.99\\ 1.978\\ 2.065\\ 2.04\\ 2.057\\ 2.031\\ 2.065\\ 2.04\\ 1.99\\ 1.978\\ 2.065\\ 2.04\\ 1.99\\ 1.978\\ 2.065\\ 2.04\\ 1.99\\ 1.978\\ 2.065\\ 2.04\\ 1.99\\ 1.978\\ 2.065\\ 2.04\\ 1.99\\ 1.978\\ 2.065\\ 2.04\\ 1.99\\ 1.978\\ 2.065\\ 2.04\\ 1.99\\ 1.978\\ 2.065\\ 2.04\\ 1.98\\ 1.972\\ 1.98\\ 1.972\\ 1.98\\ 1.972\\ 1.98\\ 1.972\\ 1.98\\ 1.972\\ 1.98$	1.71475	1.2150907
Dec 20, 2004 Dec 27, 2004 Jan 03, 2005 Jan 10, 2005	1.939 1.908 1.882 1.858	2.004057692	1.1687171
Jan 17, 2005 Jan 24, 2005	1.863 1.891		
JUII 27, 2000	1.091		

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Feb 14, 2005	1.995		
Feb 21, 2005	2.046		
Feb 28, 2005	2.073		
Mar 14, 2005	2.119		
Mar 14, 2005	2.107		
Mar 29, 2005	2.204		
Mar 28, 2005	2.258		
Apr 04, 2005	2.325		
Apr 11, 2005	2.456		
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Apr 25, 2005	2.470		
May 02, 2005	2.472		
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May 30, 2005	2.330		
Jun 12, 2005	2.31		
Jun 20, 2005	2.290		
Jun 27, 2005	2.303		
	2.340		
Jul 11, 2005	2.312		
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Jul 25, 2005	2.405		
Aug 01 2005	2.402		
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Aug 15, 2005	2.040		
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Aug 22, 2005	2.003		
Aug 29, 2005	2.73		
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Sep 19, 2005	2.970		
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Oct 10, 2005	2.007		
Oct 17, 2005	2.921		
Oct 24, 2005	2.000		
Oct 31, 2005	2.700		
Nov 07, 2005	2.032		
Nov 14, 2005	2.535		
Nov 21, 2005	2.020		
Nov 28, 2005	2,400		
$D_{00} 05, 2005$	2.000		
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Dec 12, 2005	2.529		
Dec 19, 2005	2.329 2.26 2.242		
Dec 12, 2005 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005	2.229 2.226 2.242 2.228	2 409288462	1 2022051
Dec 12, 2005 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006	2.329 2.26 2.242 2.228 2.231	2.409288462	1.2022051
Dec 03, 2005 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006	2.329 2.26 2.242 2.228 2.231 2.305	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 16, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 16, 2006 Jan 23, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 16, 2006 Jan 23, 2006 Jan 30, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 16, 2006 Jan 23, 2006 Jan 30, 2006 Feb 06, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 16, 2006 Jan 23, 2006 Jan 30, 2006 Feb 06, 2006 Feb 13, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 16, 2006 Jan 23, 2006 Jan 30, 2006 Feb 06, 2006 Feb 13, 2006 Feb 20, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.346	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 16, 2006 Jan 30, 2006 Feb 06, 2006 Feb 13, 2006 Feb 13, 2006 Feb 20, 2006 Feb 27, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.346 2.329	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 23, 2006 Jan 30, 2006 Feb 06, 2006 Feb 13, 2006 Feb 20, 2006 Feb 27, 2006 Mar 06, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.346 2.329 2.363	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 16, 2006 Jan 30, 2006 Feb 06, 2006 Feb 13, 2006 Feb 20, 2006 Feb 27, 2006 Mar 06, 2006 Mar 13, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.346 2.329 2.363 2.423	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 16, 2006 Jan 30, 2006 Feb 06, 2006 Feb 13, 2006 Feb 27, 2006 Mar 06, 2006 Mar 13, 2006 Mar 20, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.346 2.329 2.363 2.423 2.503	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 23, 2006 Jan 30, 2006 Feb 06, 2006 Feb 13, 2006 Feb 27, 2006 Mar 06, 2006 Mar 13, 2006 Mar 20, 2006 Mar 27, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.346 2.329 2.363 2.423 2.423 2.503 2.548	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 23, 2006 Jan 30, 2006 Feb 06, 2006 Feb 13, 2006 Feb 27, 2006 Mar 06, 2006 Mar 13, 2006 Mar 20, 2006 Mar 27, 2006 Apr 03, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.346 2.329 2.363 2.423 2.503 2.548 2.591	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 23, 2006 Jan 30, 2006 Feb 06, 2006 Feb 13, 2006 Feb 27, 2006 Mar 06, 2006 Mar 06, 2006 Mar 20, 2006 Mar 27, 2006 Apr 03, 2006 Apr 10, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.346 2.329 2.363 2.423 2.503 2.503 2.548 2.591 2.688	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 23, 2006 Jan 30, 2006 Feb 06, 2006 Feb 13, 2006 Feb 27, 2006 Mar 06, 2006 Mar 06, 2006 Mar 20, 2006 Mar 27, 2006 Apr 03, 2006 Apr 10, 2006 Apr 17, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.346 2.329 2.363 2.423 2.503 2.548 2.591 2.688 2.786	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 23, 2006 Jan 30, 2006 Feb 06, 2006 Feb 13, 2006 Feb 27, 2006 Mar 06, 2006 Mar 06, 2006 Mar 20, 2006 Mar 27, 2006 Apr 03, 2006 Apr 10, 2006 Apr 17, 2006 Apr 24, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.346 2.329 2.363 2.423 2.503 2.548 2.591 2.688 2.786 2.947	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 23, 2006 Jan 30, 2006 Feb 06, 2006 Feb 13, 2006 Feb 27, 2006 Mar 06, 2006 Mar 06, 2006 Mar 20, 2006 Mar 27, 2006 Mar 27, 2006 Apr 03, 2006 Apr 10, 2006 Apr 17, 2006 Apr 24, 2006 May 01, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.346 2.329 2.363 2.423 2.503 2.548 2.591 2.688 2.786 2.947 3.048	2.409288462	1.2022051
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Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 23, 2006 Jan 30, 2006 Feb 06, 2006 Feb 13, 2006 Feb 27, 2006 Mar 06, 2006 Mar 06, 2006 Mar 20, 2006 Mar 27, 2006 Mar 27, 2006 Apr 03, 2006 Apr 10, 2006 Apr 17, 2006 Apr 24, 2006 May 01, 2006 May 01, 2006 May 08, 2006 May 15, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.346 2.329 2.363 2.423 2.503 2.503 2.548 2.591 2.688 2.591 2.688 2.786 2.947 3.048 3.123 3.155 3.162	2.409288462	1.2022051
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Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 16, 2006 Jan 30, 2006 Feb 06, 2006 Feb 13, 2006 Feb 27, 2006 Mar 06, 2006 Mar 06, 2006 Mar 20, 2006 Mar 27, 2006 Mar 27, 2006 Apr 03, 2006 Apr 03, 2006 Apr 17, 2006 Apr 17, 2006 Apr 24, 2006 May 01, 2006 May 01, 2006 May 02, 2006 May 22, 2006 May 29, 2006 Jun 05, 2006 Jun 12, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.365 2.401 2.408 2.387 2.346 2.329 2.363 2.423 2.503 2.548 2.591 2.688 2.591 2.688 2.591 2.688 2.786 2.947 3.048 3.123 3.155 3.162 3.141 3.125 3.095	2.409288462	1.2022051
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Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 23, 2006 Jan 30, 2006 Feb 06, 2006 Feb 13, 2006 Feb 27, 2006 Mar 06, 2006 Mar 06, 2006 Mar 20, 2006 Mar 20, 2006 Mar 27, 2006 Apr 03, 2006 Apr 03, 2006 Apr 17, 2006 Apr 24, 2006 May 01, 2006 May 08, 2006 May 22, 2006 May 22, 2006 May 29, 2006 Jun 05, 2006 Jun 12, 2006 Jun 19, 2006 Jun 19, 2006 Jun 10, 2006 Jul 03, 2006 Jul 17, 2006 Jul 17, 2006 Jul 17, 2006 Jul 24, 2006 Jul 31, 2006 Aug 07, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.365 2.401 2.408 2.387 2.346 2.329 2.363 2.548 2.503 2.548 2.503 2.548 2.591 2.688 2.591 2.688 2.786 2.947 3.048 3.125 3.048 3.125 3.057 3.019 3.011 3.023 3.034 3.036 3.031 3.033	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 09, 2006 Jan 16, 2006 Jan 23, 2006 Feb 06, 2006 Feb 06, 2006 Feb 13, 2006 Feb 27, 2006 Mar 06, 2006 Mar 20, 2006 Mar 20, 2006 Mar 27, 2006 Mar 27, 2006 Apr 03, 2006 Apr 10, 2006 Apr 3, 2006 Apr 17, 2006 Apr 24, 2006 May 01, 2006 May 02, 2006 May 22, 2006 May 22, 2006 May 29, 2006 Jun 05, 2006 Jun 12, 2006 Jun 12, 2006 Jun 12, 2006 Jun 26, 2006 Jun 26, 2006 Jun 26, 2006 Jun 17, 2006 Jun 24, 2006 Jul 31, 2006 Aug 07, 2006 Aug 07, 2006 Aug 14, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.365 2.401 2.408 2.387 2.346 2.329 2.363 2.423 2.503 2.548 2.591 2.688 2.786 2.947 3.048 3.123 3.155 3.162 3.141 3.125 3.057 3.019 3.011 3.023 3.031 3.031 3.031 3.031 3.031	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 23, 2006 Feb 06, 2006 Feb 13, 2006 Feb 20, 2006 Feb 27, 2006 Mar 06, 2006 Mar 20, 2006 Mar 20, 2006 Mar 27, 2006 Mar 27, 2006 Apr 03, 2006 Apr 10, 2006 Apr 17, 2006 Apr 24, 2006 May 01, 2006 May 08, 2006 May 22, 2006 May 29, 2006 Jun 05, 2006 Jun 05, 2006 Jun 26, 2006 Jun 26, 2006 Jun 26, 2006 Jun 26, 2006 Jun 24, 2006 Jun 24, 2006 Jul 31, 2006 Aug 07, 2006 Aug 14, 2006 Aug 14, 2006 Aug 14, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.365 2.401 2.408 2.387 2.346 2.329 2.363 2.423 2.503 2.548 2.503 2.548 2.503 2.548 2.591 2.688 2.786 2.947 3.048 3.123 3.155 3.162 3.141 3.125 3.057 3.019 3.011 3.023 3.031 3.033 3.051 3.029	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 16, 2006 Feb 06, 2006 Feb 13, 2006 Feb 27, 2006 Mar 06, 2006 Mar 06, 2006 Mar 20, 2006 Mar 27, 2006 Mar 27, 2006 Apr 03, 2006 Apr 10, 2006 Apr 17, 2006 Apr 24, 2006 May 01, 2006 May 08, 2006 May 29, 2006 Jun 05, 2006 Jun 05, 2006 Jun 12, 2006 Jun 12, 2006 Jun 12, 2006 Jun 12, 2006 Jun 26, 2006 Jun 26, 2006 Jul 03, 2006 Jul 17, 2006 Jul 31, 2006 Aug 07, 2006 Aug 14, 2006 Aug 14, 2006 Aug 21, 2006 Aug 21, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.365 2.401 2.408 2.387 2.346 2.329 2.363 2.548 2.503 2.548 2.591 2.688 2.591 2.688 2.786 2.947 3.048 3.125 3.141 3.125 3.048 3.125 3.057 3.019 3.011 3.023 3.031 3.031 3.029 2.984	2.409288462	1.2022051
Dec 03, 2003 Dec 12, 2005 Dec 19, 2005 Dec 26, 2005 Jan 02, 2006 Jan 09, 2006 Jan 23, 2006 Feb 06, 2006 Feb 13, 2006 Feb 27, 2006 Mar 06, 2006 Mar 06, 2006 Mar 20, 2006 Mar 20, 2006 Mar 27, 2006 Apr 03, 2006 Apr 03, 2006 Apr 17, 2006 Apr 24, 2006 May 01, 2006 May 08, 2006 May 22, 2006 May 22, 2006 May 29, 2006 Jun 05, 2006 Jun 12, 2006 Jun 12, 2006 Jun 12, 2006 Jun 26, 2006 Jun 19, 2006 Jun 26, 2006 Jun 31, 2006 Jul 31, 2006 Aug 07, 2006 Aug 14, 2006 Aug 21, 2006 Aug 21, 2006 Aug 28, 2006	2.329 2.26 2.242 2.228 2.231 2.305 2.337 2.365 2.401 2.408 2.387 2.365 2.401 2.408 2.387 2.346 2.329 2.363 2.503 2.548 2.503 2.548 2.591 2.688 2.786 2.947 3.048 3.125 3.048 3.125 3.048 3.125 3.048 3.125 3.057 3.019 3.011 3.023 3.034 3.036 3.031 3.029 2.984 2.931	2.409288462	1.2022051
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May 21, 2007	3.304		
May 28, 2007	3.289		
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Jun 11, 2007	3.211		
Jun 25 2007	3.140		
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Aug 27, 2007	2.771		
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Nov 05, 2007	3.092		
Nov 12, 2007	3.172		
Nov 19, 2007	3.187		
Nov 26, 2007	3.189		
Dec 03, 2007	3.171		
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Dec 24, 2007	3.092		
Dec 31, 2007	3.124	2.922377358	1.0786972
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Jan 14, 2008	3.128		
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May 19, 2008	3.807		
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Jun 09, 2008	4.078 4 181		
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Jun 23, 2008	4.287		
Jun 30, 2008	4.296		
Jul 07, 2008	4.295		

Jul 14, 2008 Jul 28, 2008 Aug 04, 2008 Aug 11, 2008 Aug 18, 2008 Aug 25, 2008 Sep 01, 2008 Sep 08, 2008 Sep 15, 2008 Sep 22, 2008 Oct 06, 2008 Oct 20, 2008 Oct 20, 2008 Oct 20, 2008 Nov 03, 2008 Nov 03, 2008 Nov 10, 2008 Nov 17, 2008 Nov 24, 2008 Dec 01, 2008 Dec 01, 2008 Dec 01, 2008 Dec 02, 2008 Dec 22, 2009 Jan 12, 2009 Jan 12, 2009 Jan 26, 2009 Feb 02, 2009 Feb 02, 2009 Feb 16, 2009 Feb 16, 2009 Mar 09, 2009 Mar 09, 2009 Mar 16, 2009 Mar 30, 2009 Mar 15, 2009 Jun 01, 2009 Jun 02, 2009 Jun 03, 2009 May 11, 2009 Jun 22, 2009 Jun 23, 2009 Jun 24, 2009 Aug 31, 2009 Sep 21, 2009 Sep 21, 2009 Sep 21, 2009 Nov 02, 2009 Nov 02, 2009 Nov 03, 2009 Nov 04, 2009 Nov 04, 2009 Nov 05, 2009 Nov 05, 2009 Nov 06, 2009 Nov 06, 2009 Nov 07, 2009 Nov 0	4.277 4.241 4.074 3.999 3.829 3.829 3.757 3.686 2.757 2.547 2.376 2.049 1.824 2.757 2.376 2.713 2.547 2.173 2.049 1.824 2.036 2.132 2.132 2.135 2.209 2.211 2.232 2.135 2.386 2.713 2.209 2.151 2.206 2.182 2.209 2.211 2.235 2.869 2.762 2.762 2.763 2.855 2.868 2.86	3.382788462	1.1575468
Dec 14, 2009 Dec 21, 2009	2.8 2.782	0 54404045	0.7500004
Jan 04, 2010	2.781	2.544134615	0.7520821
Jan 11, 2010 Jan 18, 2010	∠.875 2.875		
Jan 25, 2010 Feb 01, 2010	2.87 2.848		
Feb 08, 2010 Feb 15, 2010	2.828 2.805		
Feb 22, 2010	2.825		
Mar 01, 2010 Mar 08, 2010	2.877 2.925		
Mar 15, 2010 Mar 22, 2010	2.955 2.98		
Mar 29, 2010	2.996		

Apr 05 2010	3 004		
Apr 03, 2010	2 0 4 4		
Apr 12, 2010	3.044		
Apr 19, 2010	3.05		
Apr 26, 2010	3.047		
May 03, 2010	3.059		
May 10, 2010	3.069		
May 17, 2010	3.036		
May 24, 2010	2.988		
May 31, 2010	2.941		
lun 07 2010	2 949		
lup 14, 2010	2.040		
Juli 14, 2010	2.935		
Jun 21, 2010	2.967		
Jun 28, 2010	2.978		
Jul 05, 2010	2.982		
Jul 12, 2010	2.971		
Jul 19, 2010	2.991		
Jul 26, 2010	3.017		
Aug 02 2010	3 024		
Aug 09, 2010	3 0/0		
Aug 16, 2010	2 0 4 4		
Aug 10, 2010	2.041		
Aug 23, 2010	3.022		
Aug 30, 2010	2.99		
Sep 06, 2010	2.961		
Sep 13, 2010	2.944		
Sep 20, 2010	2.939		
Sep 27, 2010	2.921		
Oct 04, 2010	2,924		
Oct 11, 2010	2 076		
Oct 18, 2010	2.014		
Oct 18, 2010	2.014		
Oct 25, 2010	3.016		
Nov 01, 2010	3.009		
Nov 08, 2010	3.02		
Nov 15, 2010	3.047		
Nov 22, 2010	3.059		
Nov 29, 2010	3.041		
Dec 06, 2010	3 091		
Dec 13, 2010	2 1 2 5		
Dec 13, 2010	3.125		
Dec 20, 2010	3.129	/	
Dec 27, 2010	3.148	2.980269231	1.1714275
Jan 03, 2011	3.16		
Jan 10, 2011	3.186		
Jan 17, 2011	3.223		
Jan 24, 2011	3 2 3 1		
lan 31 2011	3 234		
Sali 51, 2011	2.204		
	3.205		
Feb 14, 2011	3.314		
Feb 21, 2011	3.398		
Feb 28, 2011	3.504		
Mar 07, 2011	3.63		
Mar 07, 2011 Mar 14, 2011	3.63 3.692		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011	3.63 3.692 3.716		
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Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011	3.63 3.692 3.716 3.772		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011	3.63 3.692 3.716 3.772 3.818		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011 Apr 11, 2011	3.63 3.692 3.716 3.772 3.818 3.868		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 Apr 25, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 Apr 25, 2011 May 02, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942 3.987		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 Apr 25, 2011 May 02, 2011 May 09, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942 3.987 4.017		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 Apr 25, 2011 May 02, 2011 May 09, 2011 May 16, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942 3.987 4.017 3.99		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 Apr 25, 2011 May 02, 2011 May 09, 2011 May 16, 2011 May 23, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942 3.987 4.017 3.99 3.933		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 Apr 25, 2011 May 02, 2011 May 09, 2011 May 16, 2011 May 30, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942 3.987 4.017 3.99 3.933 3.893		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 Apr 25, 2011 May 02, 2011 May 09, 2011 May 16, 2011 May 30, 2011 Jun 06, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942 3.987 4.017 3.99 3.933 3.893 3.893 3.869		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 Apr 25, 2011 May 02, 2011 May 09, 2011 May 16, 2011 May 30, 2011 Jun 06, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942 3.987 4.017 3.99 3.933 3.893 3.893 3.869 3.838		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 Apr 25, 2011 May 02, 2011 May 09, 2011 May 16, 2011 May 30, 2011 Jun 06, 2011 Jun 13, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942 3.987 4.017 3.99 3.933 3.893 3.893 3.869 3.838 2.907		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 Apr 25, 2011 May 02, 2011 May 09, 2011 May 30, 2011 Jun 06, 2011 Jun 13, 2011 Jun 20, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942 3.987 4.017 3.99 3.933 3.893 3.893 3.869 3.838 3.807 2.755		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 Apr 25, 2011 May 02, 2011 May 09, 2011 May 09, 2011 May 30, 2011 Jun 06, 2011 Jun 20, 2011 Jun 27, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942 3.987 4.017 3.99 3.933 3.893 3.893 3.869 3.838 3.807 3.759		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 Apr 25, 2011 May 09, 2011 May 09, 2011 May 30, 2011 Jun 06, 2011 Jun 06, 2011 Jun 27, 2011 Jun 04, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942 3.987 4.017 3.99 3.933 3.893 3.893 3.893 3.869 3.838 3.807 3.759 3.705		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 Apr 25, 2011 May 02, 2011 May 09, 2011 May 30, 2011 Jun 06, 2011 Jun 06, 2011 Jun 27, 2011 Jun 27, 2011 Jul 04, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942 3.987 4.017 3.99 3.933 3.893 3.893 3.893 3.807 3.759 3.705 3.692		
Mar 07, 2011 Mar 14, 2011 Mar 21, 2011 Mar 28, 2011 Apr 04, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 May 02, 2011 May 09, 2011 May 09, 2011 May 30, 2011 Jun 06, 2011 Jun 06, 2011 Jun 20, 2011 Jun 27, 2011 Jul 04, 2011 Jul 11, 2011 Jul 18, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942 3.987 4.017 3.99 3.933 3.893 3.893 3.869 3.838 3.807 3.759 3.705 3.692 3.697		
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Mar 07, 2011 Mar 14, 2011 Mar 28, 2011 Apr 04, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 Apr 25, 2011 May 09, 2011 May 09, 2011 May 09, 2011 May 30, 2011 Jun 06, 2011 Jun 20, 2011 Jun 20, 2011 Jun 27, 2011 Jul 27, 2011 Jul 11, 2011 Jul 25, 2011 Aug 01, 2011 Aug 02, 2011 Aug 22, 2011 Aug 29, 2011 Sep 12, 2011 Sep 12, 2011 Sep 12, 2011 Sep 26, 2011 Oct 03, 2011 Oct 17, 2011 Oct 31, 2011 Nov 14, 2011 Nov 21, 2011 Nov 28, 2011 Dec 05, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942 3.987 4.017 3.99 3.933 3.893 3.893 3.869 3.838 3.807 3.759 3.705 3.692 3.697 3.694 3.702 3.701 3.674 3.663 3.693 3.771 3.674 3.663 3.772 3.726 3.698 3.772 3.726 3.698 3.772 3.726 3.698 3.772 3.725 3.697 3.698 3.772 3.726 3.698 3.772 3.725 3.697 3.725 3.677 3.698 3.772 3.725 3.677 3.698 3.772 3.725 3.677 3.659 3.727 3.725 3.677 3.659 3.727 3.725 3.677 3.677 3.677 3.677 3.757 3.677 3.677		
Mar 07, 2011 Mar 14, 2011 Mar 28, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 Apr 25, 2011 May 09, 2011 May 09, 2011 May 09, 2011 May 30, 2011 Jun 20, 2011 Jun 20, 2011 Jun 20, 2011 Jun 27, 2011 Jul 11, 2011 Jul 25, 2011 Aug 01, 2011 Aug 02, 2011 Aug 22, 2011 Aug 29, 2011 Sep 12, 2011 Sep 12, 2011 Sep 12, 2011 Sep 26, 2011 Oct 03, 2011 Oct 17, 2011 Oct 31, 2011 Nov 14, 2011 Nov 14, 2011 Nov 21, 2011 Nov 28, 2011 Dec 05, 2011 Dec 05, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942 3.987 4.017 3.99 3.933 3.893 3.893 3.893 3.869 3.838 3.807 3.759 3.705 3.692 3.697 3.694 3.702 3.701 3.674 3.663 3.771 3.674 3.663 3.771 3.784 3.772 3.726 3.698 3.772 3.726 3.698 3.772 3.726 3.698 3.772 3.726 3.698 3.772 3.705 3.677 3.698 3.727 3.705 3.677 3.698 3.727 3.705 3.677 3.698 3.727 3.705 3.677 3.698 3.727 3.705 3.677 3.698		
Mar 07, 2011 Mar 14, 2011 Mar 28, 2011 Apr 04, 2011 Apr 04, 2011 Apr 11, 2011 Apr 18, 2011 Apr 25, 2011 May 02, 2011 May 09, 2011 May 09, 2011 May 30, 2011 Jun 20, 2011 Jun 20, 2011 Jun 27, 2011 Jun 27, 2011 Jul 14, 2011 Jul 25, 2011 Aug 01, 2011 Aug 02, 2011 Aug 29, 2011 Aug 29, 2011 Sep 12, 2011 Sep 12, 2011 Sep 26, 2011 Oct 03, 2011 Oct 17, 2011 Oct 31, 2011 Nov 14, 2011 Nov 14, 2011 Nov 21, 2011 Nov 28, 2011 Dec 05, 2011 Dec 12, 2011	3.63 3.692 3.716 3.772 3.818 3.868 3.917 3.942 3.987 4.017 3.99 3.933 3.893 3.893 3.893 3.869 3.838 3.807 3.759 3.705 3.692 3.697 3.694 3.702 3.697 3.694 3.702 3.701 3.674 3.663 3.771 3.674 3.663 3.772 3.726 3.693 3.772 3.726 3.698 3.772 3.726 3.698 3.772 3.725 3.697 3.698 3.772 3.726 3.698 3.772 3.726 3.698 3.772 3.725 3.677 3.698 3.772 3.725 3.677 3.698 3.772 3.725 3.677 3.659 3.727 3.705 3.677 3.677 3.677 3.677		

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Jan 09, 2012 Jan 16, 2012	3.477		
Jan 23, 2012	3.516		
Jan 30, 2012	3.543		
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Feb 13, 2012	3.593		
Feb 20, 2012 Feb 27, 2012	3.705		
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Mar 12, 2012	3.994		
Mar 19, 2012	4.038		
Mar 26, 2012	4.086		
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Apr 16 2012	4.12		
Apr 23, 2012	4.088		
Apr 30, 2012	4.058		
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May 14, 2012	4.11		
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Jun 04, 2012	4.103		
Jun 11, 2012	4.02		
Jun 18, 2012	3.901		
Jun 25, 2012	3.762		
Jul 02, 2012 Jul 09, 2012	3.600		
Jul 16, 2012	3.589		
Jul 23, 2012	3.605		
Jul 30, 2012	3.595		
Aug 06, 2012	3.618		
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Sep 17, 2012	3.984		
Oct 01 2012	3.966		
Oct 08, 2012	4.025		
Oct 15, 2012	4.039		
Oct 22, 2012	3.97		
Oct 29, 2012	3.881		
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012	3.881 3.78 3.703		
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012	3.881 3.78 3.703 3.626		
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012	3.881 3.78 3.703 3.626 3.581		
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012	3.881 3.78 3.703 3.626 3.581 3.527		
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.303		
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343		
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013	3.881 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.333 2.227	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013	3.881 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.339 3.337 3.37	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 17, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013	3.881 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.337 3.37	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 28, 2013 Feb 04, 2013 Feb 11, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.339 3.338 3.337 3.502 3.612	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013 Feb 11, 2013 Feb 18, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.337 3.37 3.502 3.612 3.713	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013 Feb 11, 2013 Feb 18, 2013 Feb 25, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.337 3.502 3.612 3.713 3.83 3.83	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013 Feb 18, 2013 Feb 18, 2013 Feb 25, 2013 Mar 04, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.337 3.37 3.502 3.612 3.713 3.83 3.874 3.885	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013 Feb 18, 2013 Feb 18, 2013 Mar 04, 2013 Mar 11, 2013 Mar 18, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.337 3.337 3.502 3.612 3.713 3.83 3.874 3.885 3.864	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013 Feb 18, 2013 Feb 18, 2013 Mar 11, 2013 Mar 11, 2013 Mar 18, 2013	3.881 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.337 3.37 3.502 3.612 3.713 3.83 3.874 3.885 3.864 3.829	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013 Feb 18, 2013 Feb 18, 2013 Feb 25, 2013 Mar 04, 2013 Mar 11, 2013 Mar 18, 2013 Mar 25, 2013 Apr 01, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.337 3.337 3.502 3.612 3.713 3.83 3.874 3.885 3.864 3.829 3.808 2.207	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013 Feb 18, 2013 Feb 18, 2013 Feb 25, 2013 Mar 04, 2013 Mar 11, 2013 Mar 18, 2013 Mar 25, 2013 Apr 01, 2013 Apr 08, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.343 3.339 3.338 3.337 3.37 3.502 3.612 3.713 3.83 3.874 3.885 3.864 3.829 3.808 3.797 3.76	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 11, 2013 Feb 12, 2013 Feb 13, 2013 Feb 14, 2013 Feb 25, 2013 Mar 04, 2013 Mar 14, 2013 Mar 18, 2013 Mar 18, 2013 Mar 25, 2013 Apr 01, 2013 Apr 08, 2013 Apr 22, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.333 3.337 3.337 3.337 3.502 3.612 3.713 3.83 3.874 3.885 3.864 3.829 3.808 3.797 3.76 3.718	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013 Feb 11, 2013 Feb 18, 2013 Feb 25, 2013 Mar 04, 2013 Mar 11, 2013 Mar 125, 2013 Mar 25, 2013 Apr 08, 2013 Apr 08, 2013 Apr 22, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.337 3.337 3.502 3.612 3.713 3.83 3.874 3.885 3.864 3.829 3.808 3.797 3.76 3.718 3.671	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 11, 2013 Feb 12, 2013 Feb 13, 2013 Feb 14, 2013 Feb 25, 2013 Mar 04, 2013 Mar 14, 2013 Mar 18, 2013 Mar 18, 2013 Mar 25, 2013 Apr 01, 2013 Apr 02, 2013 Apr 29, 2013 May 06, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.337 3.337 3.502 3.612 3.713 3.83 3.874 3.885 3.864 3.829 3.808 3.797 3.76 3.718 3.671 3.671 3.689	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013 Feb 18, 2013 Feb 18, 2013 Feb 18, 2013 Mar 04, 2013 Mar 11, 2013 Mar 125, 2013 Mar 15, 2013 Apr 08, 2013 Apr 29, 2013 May 06, 2013 May 13, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.337 3.337 3.502 3.612 3.713 3.83 3.874 3.885 3.864 3.829 3.808 3.797 3.76 3.718 3.671 3.689 3.809 2.825	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 11, 2013 Feb 12, 2013 Feb 13, 2013 Feb 25, 2013 Mar 04, 2013 Mar 14, 2013 Mar 18, 2013 Mar 18, 2013 Mar 25, 2013 Apr 01, 2013 Apr 02, 2013 May 06, 2013 May 13, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.333 3.337 3.337 3.337 3.337 3.502 3.612 3.713 3.83 3.874 3.885 3.864 3.829 3.808 3.797 3.76 3.718 3.671 3.689 3.809 3.835 3.829	3.804716981	1.0396986
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Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013 Feb 11, 2013 Feb 12, 2013 Mar 04, 2013 Mar 14, 2013 Mar 18, 2013 Mar 18, 2013 Mar 18, 2013 Mar 25, 2013 Apr 01, 2013 Apr 02, 2013 May 06, 2013 May 13, 2013 May 27, 2013 Jun 03, 2013 Jun 03, 2013 Jun 10, 2013	3.881 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.333 3.337 3.337 3.337 3.302 3.612 3.713 3.83 3.874 3.829 3.808 3.797 3.76 3.718 3.671 3.689 3.809 3.835 3.829 3.829 3.829 3.835	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Feb 04, 2013 Feb 11, 2013 Feb 12, 2013 Mar 04, 2013 Mar 04, 2013 Mar 11, 2013 Mar 125, 2013 Mar 25, 2013 Mar 25, 2013 Apr 01, 2013 Apr 08, 2013 Apr 29, 2013 May 06, 2013 May 13, 2013 May 27, 2013 Jun 03, 2013 Jun 10, 2013 Jun 17, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.337 3.337 3.337 3.502 3.612 3.713 3.83 3.837 3.83 3.874 3.885 3.864 3.829 3.808 3.797 3.76 3.718 3.671 3.689 3.809 3.835 3.829 3.771 3.766 3.771	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013 Feb 11, 2013 Feb 18, 2013 Mar 11, 2013 Mar 14, 2013 Mar 14, 2013 Mar 15, 2013 Mar 25, 2013 Apr 08, 2013 Apr 08, 2013 Apr 29, 2013 May 06, 2013 May 20, 2013 May 27, 2013 Jun 03, 2013 Jun 10, 2013 Jun 24, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.37 3.502 3.612 3.713 3.83 3.874 3.885 3.864 3.829 3.864 3.829 3.808 3.797 3.76 3.718 3.671 3.689 3.809 3.835 3.829 3.835 3.829 3.789 3.771 3.766 3.781 3.752	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Feb 04, 2013 Feb 11, 2013 Feb 12, 2013 Feb 13, 2013 Feb 25, 2013 Mar 04, 2013 Mar 14, 2013 Mar 14, 2013 Mar 14, 2013 Mar 15, 2013 Apr 01, 2013 Apr 29, 2013 May 06, 2013 May 13, 2013 May 27, 2013 Jun 03, 2013 Jun 10, 2013 Jun 17, 2013 Jun 17, 2013 Jun 04, 2013 Jun 04, 2013 Jun 04, 2013 Jun 04, 2013 Jun 10, 2013 Jun 10, 2013 Jun 04, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.337 3.37 3.502 3.612 3.713 3.83 3.874 3.885 3.864 3.829 3.808 3.797 3.76 3.718 3.671 3.689 3.809 3.835 3.829 3.835 3.829 3.771 3.766 3.781 3.753 3.737	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013 Feb 11, 2013 Feb 18, 2013 Feb 25, 2013 Mar 11, 2013 Mar 18, 2013 Mar 15, 2013 Apr 08, 2013 Apr 08, 2013 Apr 29, 2013 May 06, 2013 May 13, 2013 May 20, 2013 May 27, 2013 Jun 03, 2013 Jun 17, 2013 Jun 24, 2013 Jun 24, 2013 Jun 15, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.37 3.502 3.612 3.713 3.83 3.874 3.885 3.864 3.829 3.864 3.829 3.864 3.829 3.864 3.797 3.76 3.718 3.671 3.689 3.809 3.835 3.829 3.781 3.753 3.737 3.823	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Feb 04, 2013 Feb 11, 2013 Feb 12, 2013 Feb 13, 2013 Feb 25, 2013 Mar 04, 2013 Mar 14, 2013 Mar 18, 2013 Mar 18, 2013 Mar 25, 2013 Apr 01, 2013 Apr 29, 2013 May 06, 2013 May 13, 2013 May 27, 2013 Jun 03, 2013 Jun 10, 2013 Jun 17, 2013 Jun 15, 2013 Jun 22, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.37 3.502 3.612 3.713 3.83 3.874 3.829 3.864 3.829 3.864 3.829 3.864 3.829 3.864 3.829 3.865 3.829 3.718 3.671 3.671 3.689 3.809 3.835 3.829 3.781 3.753 3.737 3.823 3.823 3.865	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 26, 2012 Dec 03, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013 Feb 18, 2013 Feb 18, 2013 Feb 18, 2013 Mar 04, 2013 Mar 11, 2013 Mar 14, 2013 Mar 25, 2013 Mar 25, 2013 Apr 01, 2013 Apr 08, 2013 Apr 29, 2013 May 06, 2013 May 13, 2013 May 27, 2013 Jun 10, 2013 Jun 17, 2013 Jun 17, 2013 Jun 17, 2013 Jun 15, 2013 Jul 01, 2013 Jul 22, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.37 3.502 3.612 3.713 3.83 3.874 3.885 3.864 3.829 3.808 3.797 3.76 3.718 3.874 3.885 3.864 3.797 3.766 3.718 3.671 3.689 3.809 3.809 3.835 3.829 3.771 3.766 3.781 3.753 3.737 3.766 3.781 3.753 3.737 3.823 3.825 3.825 3.855 3.855	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013 Feb 11, 2013 Feb 12, 2013 Mar 04, 2013 Mar 14, 2013 Mar 18, 2013 Mar 18, 2013 Mar 25, 2013 Apr 01, 2013 Apr 02, 2013 May 06, 2013 May 06, 2013 May 13, 2013 May 27, 2013 Jun 03, 2013 Jun 10, 2013 Jun 17, 2013 Jun 24, 2013 Jun 17, 2013 Jun 22, 2013 Jun 22, 2013 Jun 22, 2013 Aug 05, 2013 Aug 05, 2013 Aug 05, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.337 3.337 3.337 3.337 3.37 3.502 3.612 3.713 3.83 3.874 3.885 3.864 3.829 3.808 3.797 3.76 3.718 3.671 3.689 3.809 3.809 3.809 3.835 3.829 3.781 3.753 3.753 3.737 3.823 3.823 3.858 3.858 3.829 3.787	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 26, 2012 Dec 03, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Feb 04, 2013 Feb 11, 2013 Feb 12, 2013 Mar 04, 2013 Mar 04, 2013 Mar 11, 2013 Mar 125, 2013 Mar 05, 2013 May 06, 2013 May 06, 2013 May 06, 2013 May 13, 2013 May 13, 2013 Jun 10, 2013 Jun 10, 2013 Jun 17, 2013 Jun 15, 2013 Jun 15, 2013 Jun 15, 2013 Jun 15, 2013 Jun 24, 2013 Jun 29, 2013 Aug 05, 2013 Aug 12, 2013 Aug 12, 2013 Aug 12, 2013 Aug 12, 2013 Aug 12, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.337 3.337 3.337 3.502 3.612 3.713 3.83 3.837 3.83 3.874 3.885 3.864 3.829 3.808 3.797 3.766 3.718 3.671 3.689 3.809 3.809 3.835 3.829 3.771 3.766 3.781 3.766 3.781 3.753 3.737 3.823 3.858 3.829 3.787 3.739	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013 Feb 11, 2013 Feb 18, 2013 Mar 04, 2013 Mar 11, 2013 Mar 12, 2013 Mar 25, 2013 Apr 08, 2013 Apr 08, 2013 Apr 29, 2013 May 13, 2013 May 20, 2013 May 27, 2013 Jun 03, 2013 Jun 10, 2013 Jun 17, 2013 Jun 24, 2013 Jun 24, 2013 Jul 22, 2013 Aug 05, 2013 Aug 12, 2013 Aug 19, 2013 Aug 19, 2013 Aug 26, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.343 3.339 3.338 3.337 3.502 3.612 3.713 3.837 3.874 3.885 3.864 3.829 3.864 3.829 3.864 3.829 3.718 3.671 3.689 3.809 3.835 3.829 3.781 3.753 3.753 3.737 3.766 3.781 3.753 3.737 3.823 3.823 3.787 3.739 3.698	3.804716981	1.0396986
Oct 29, 2012 Nov 05, 2012 Nov 12, 2012 Nov 19, 2012 Nov 26, 2012 Dec 03, 2012 Dec 10, 2012 Dec 17, 2012 Dec 24, 2012 Dec 31, 2012 Jan 07, 2013 Jan 14, 2013 Jan 21, 2013 Jan 28, 2013 Feb 04, 2013 Feb 11, 2013 Feb 18, 2013 Feb 25, 2013 Mar 04, 2013 Mar 14, 2013 Mar 14, 2013 Mar 25, 2013 Mar 25, 2013 Apr 01, 2013 Apr 08, 2013 Apr 29, 2013 May 13, 2013 May 13, 2013 May 20, 2013 May 27, 2013 Jun 03, 2013 Jun 10, 2013 Jun 17, 2013 Jun 24, 2013 Jun 24, 2013 Jul 22, 2013 Aug 12, 2013 Aug 12, 2013 Aug 12, 2013 Aug 12, 2013 Aug 20, 2013	3.881 3.78 3.703 3.626 3.581 3.527 3.467 3.393 3.343 3.339 3.338 3.337 3.37 3.502 3.612 3.713 3.83 3.874 3.829 3.864 3.829 3.808 3.797 3.766 3.718 3.671 3.689 3.808 3.797 3.766 3.718 3.671 3.689 3.809 3.835 3.829 3.771 3.766 3.781 3.753 3.737 3.823 3.823 3.829 3.771 3.766 3.781 3.753 3.737 3.823 3.829 3.737 3.823 3.858 3.829 3.737	3.804716981	1.0396986

Sep 16, 2013	3.693		
Sep 23, 2013	3.677		
Sep 30, 2013	3.632		
Oct 07, 2013	3 594		
Oct 14, 2013	3 551		
0.14,2013	3.001		
Oct 21, 2013	3.517		
Oct 28, 2013	3.474		
Nov 04, 2013	3.441		
Nov 11, 2013	3.395		
Nov 18, 2013	3 357		
Nov 25, 2013	2 251		
NOV 25, 2013	3.354		
Dec 02, 2013	3.352		
Dec 09, 2013	3.35		
Dec 16, 2013	3.348		
Dec 23, 2013	3 344		
$D_{22} = 20, 2013$	2 260	2 640011500	0.0570004
	3.309	3.042211556	0.9572004
Jan 06, 2014	3.393		
Jan 13, 2014	3.392		
Jan 20. 2014	3.378		
lan 27 2014	3 375		
Eab 02 2014	2 270		
Feb 03, 2014	3.378		
Feb 10, 2014	3.383		
Feb 17, 2014	3.411		
Feb 24, 2014	3.458		
Mar 03 2014	3 500		
Mar 10, 2014	2 562		
Mar 10, 2014	3.502		
Mar 17, 2014	3.609		
Mar 24, 2014	3.622		
Mar 31, 2014	3.657		
$\Delta pr 07, 2014$	3 68		
Apr 07, 2014	0.00		
Apr 14, 2014	3.724		
Apr 21, 2014	3.773		
Apr 28, 2014	3.814		
May 05 2014	3 818		
May 12, 2014	2 9 2 1		
May 12, 2014	0.021		
May 19, 2014	3.821		
May 26, 2014	3.831		
Jun 02, 2014	3.851		
Jun 09. 2014	3.856		
lun 16, 2014	3 872		
lup 22, 2014	2 007		
Juli 23, 2014	3.907		
Jun 30, 2014	3.923		
Jul 07, 2014	3.933		
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Jul 20, 2014	3.004		
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Aug 11, 2014	3.826		
Aug 11, 2014 Aug 18, 2014	3.826 3.806		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014	3.826 3.806 3.787		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014	3.826 3.806 3.787		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014	3.826 3.806 3.787 3.768		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014	3.826 3.806 3.787 3.768 3.755		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014	3.826 3.806 3.787 3.768 3.755 3.716		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014	3.826 3.806 3.787 3.768 3.755 3.716 3.658		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014	3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014	3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014	3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 2.402		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 13, 2014	3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 13, 2014 Oct 20, 2014	3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 13, 2014 Oct 20, 2014 Oct 27, 2014	3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 13, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014	3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 22, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 13, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014	3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 22, 2014 Sep 22, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014	3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 17, 2014	3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 17, 2014 Nov 24, 2014	3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062		
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 17, 2014 Nov 24, 2014	3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018		
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Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 17, 2014 Nov 24, 2014 Dec 01, 2014 Dec 08, 2014 Dec 15, 2014	3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81		
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Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 17, 2014 Nov 24, 2014 Dec 01, 2014 Dec 03, 2014 Dec 03, 2014 Dec 15, 2014 Dec 22, 2014 Jan 05, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 17, 2014 Nov 24, 2014 Dec 01, 2014 Dec 03, 2014 Dec 15, 2014 Dec 22, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.360	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 17, 2014 Nov 24, 2014 Dec 01, 2014 Dec 03, 2014 Dec 03, 2014 Dec 15, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 17, 2014 Nov 24, 2014 Dec 01, 2014 Dec 03, 2014 Dec 15, 2014 Dec 22, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 19, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 24, 2014 Dec 01, 2014 Dec 01, 2014 Dec 03, 2014 Dec 15, 2014 Dec 22, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 19, 2015 Jan 26, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 17, 2014 Nov 24, 2014 Dec 01, 2014 Dec 01, 2014 Dec 03, 2014 Dec 22, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 26, 2015 Feb 02, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.192	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 24, 2014 Dec 01, 2014 Dec 01, 2014 Dec 03, 2014 Dec 22, 2014 Dec 22, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 26, 2015 Feb 02, 2015 Feb 09, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.192 2.268	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 17, 2014 Nov 24, 2014 Dec 01, 2014 Dec 01, 2014 Dec 03, 2014 Dec 22, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 26, 2015 Feb 02, 2015 Feb 09, 2015 Feb 16, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.192 2.268 2.374	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 24, 2014 Dec 01, 2014 Dec 01, 2014 Dec 03, 2014 Dec 22, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 19, 2015 Feb 02, 2015 Feb 16, 2015 Feb 16, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.192 2.268 2.374	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 17, 2014 Nov 24, 2014 Dec 01, 2014 Dec 01, 2014 Dec 03, 2014 Dec 22, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 12, 2015 Feb 02, 2015 Feb 02, 2015 Feb 16, 2015 Feb 23, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.192 2.268 2.374 2.374	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 17, 2014 Nov 24, 2014 Dec 01, 2014 Dec 01, 2014 Dec 03, 2014 Dec 22, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 19, 2015 Feb 02, 2015 Feb 16, 2015 Feb 23, 2015 Mar 02, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.192 2.268 2.374 2.466 2.686	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 22, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 24, 2014 Dec 01, 2014 Dec 01, 2014 Dec 03, 2014 Dec 22, 2014 Dec 22, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 12, 2015 Feb 02, 2015 Feb 16, 2015 Feb 23, 2015 Mar 02, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.268 2.374 2.466 2.686 2.792	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 17, 2014 Nov 24, 2014 Dec 01, 2014 Dec 03, 2014 Dec 08, 2014 Dec 22, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 12, 2015 Feb 02, 2015 Feb 16, 2015 Feb 23, 2015 Mar 02, 2015 Mar 09, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.268 2.374 2.466 2.686 2.792 2.756	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 24, 2014 Dec 01, 2014 Dec 01, 2014 Dec 03, 2014 Dec 22, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 12, 2015 Feb 02, 2015 Feb 16, 2015 Feb 16, 2015 Feb 23, 2015 Mar 02, 2015 Mar 02, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.268 2.374 2.466 2.686 2.792 2.756 2.722	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 24, 2014 Dec 01, 2014 Dec 01, 2014 Dec 02, 2014 Dec 22, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 12, 2015 Feb 02, 2015 Feb 16, 2015 Feb 16, 2015 Feb 23, 2015 Mar 02, 2015 Mar 23, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.268 2.374 2.466 2.686 2.792 2.756 2.722	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 17, 2014 Nov 24, 2014 Dec 01, 2014 Dec 08, 2014 Dec 08, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 12, 2015 Feb 02, 2015 Feb 16, 2015 Feb 23, 2015 Mar 02, 2015 Mar 03, 2015 Mar 30, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.268 2.374 2.466 2.686 2.792 2.756 2.722 2.694	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 17, 2014 Nov 24, 2014 Dec 01, 2014 Dec 08, 2014 Dec 29, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 12, 2015 Feb 02, 2015 Feb 03, 2015 Feb 16, 2015 Feb 23, 2015 Mar 02, 2015 Mar 02, 2015 Mar 30, 2015 Apr 06, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.268 2.374 2.466 2.686 2.792 2.756 2.722 2.694 2.677	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 24, 2014 Dec 01, 2014 Dec 03, 2014 Dec 22, 2014 Dec 29, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 12, 2015 Feb 02, 2015 Feb 03, 2015 Feb 16, 2015 Feb 23, 2015 Mar 02, 2015 Mar 02, 2015 Mar 30, 2015 Apr 06, 2015 Apr 13, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.268 2.374 2.686 2.792 2.756 2.722 2.694 2.677 2.666	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 24, 2014 Dec 01, 2014 Dec 03, 2014 Dec 22, 2014 Dec 22, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 12, 2015 Jan 12, 2015 Feb 02, 2015 Feb 03, 2015 Feb 16, 2015 Feb 23, 2015 Mar 02, 2015 Mar 02, 2015 Mar 30, 2015 Apr 06, 2015 Apr 13, 2015 Apr 20, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.268 2.374 2.686 2.792 2.756 2.722 2.694 2.695	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 24, 2014 Dec 01, 2014 Dec 03, 2014 Dec 22, 2014 Dec 22, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 12, 2015 Jan 26, 2015 Feb 02, 2015 Feb 03, 2015 Feb 16, 2015 Feb 23, 2015 Mar 02, 2015 Mar 02, 2015 Mar 30, 2015 Mar 30, 2015 Apr 13, 2015 Apr 20, 2015 Apr 27, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.192 2.268 2.374 2.466 2.686 2.792 2.756 2.722 2.694 2.695 2.802	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 24, 2014 Dec 01, 2014 Dec 03, 2014 Dec 22, 2014 Dec 29, 2014 Dec 29, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 12, 2015 Jan 12, 2015 Feb 02, 2015 Feb 02, 2015 Feb 16, 2015 Feb 23, 2015 Mar 02, 2015 Mar 02, 2015 Mar 30, 2015 Mar 30, 2015 Apr 13, 2015 Apr 27, 2015 May 04, 2015	3.826 3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.268 2.374 2.466 2.686 2.792 2.694 2.677 2.666 2.722 2.694 2.695 2.802 2.962	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 24, 2014 Dec 01, 2014 Dec 03, 2014 Dec 22, 2014 Dec 29, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 12, 2015 Jan 26, 2015 Feb 02, 2015 Feb 03, 2015 Feb 16, 2015 Feb 23, 2015 Mar 02, 2015 Mar 02, 2015 Mar 30, 2015 Mar 30, 2015 Apr 13, 2015 Apr 27, 2015 May 04, 2015 May 04, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.268 2.374 2.666 2.792 2.268 2.374 2.666 2.792 2.686 2.792 2.694 2.677 2.666 2.695 2.802 2.962 3.001	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 17, 2014 Nov 24, 2014 Dec 01, 2014 Dec 03, 2014 Dec 22, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 12, 2015 Jan 26, 2015 Feb 02, 2015 Feb 03, 2015 Feb 16, 2015 Feb 23, 2015 Mar 02, 2015 Mar 02, 2015 Mar 30, 2015 Mar 30, 2015 Mar 30, 2015 Apr 13, 2015 Apr 27, 2015 May 04, 2015 May 11, 2015	3.826 3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.268 2.374 2.466 2.686 2.792 2.268 2.374 2.667 2.566 2.792 2.268 2.374 2.667 2.566 2.792 2.666 2.792 2.666 2.792 2.666 2.792 2.666 2.792 2.666 2.792 2.666 2.792 2.666 2.792 2.666 2.792 2.666 2.792 2.666 2.792 2.666 2.792 2.666 2.792 2.666 2.792 2.666 2.695 2.802 3.001 3.002 3.001 3.002 3.002 3.002 3.002 3.002 3.002 3.002 3.002 3.002 3.002 3.002 3.002 3.002 3.002 3.002 3.002 3.002 3.002 3.002 3.001 3.002 3.001 3.002 3.001 3.002 3.001 3.002 3.001 3.0	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 17, 2014 Nov 24, 2014 Dec 01, 2014 Dec 03, 2014 Dec 29, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 12, 2015 Jan 12, 2015 Feb 02, 2015 Feb 03, 2015 Feb 16, 2015 Feb 16, 2015 Feb 23, 2015 Mar 02, 2015 Mar 02, 2015 Mar 30, 2015 Mar 30, 2015 Mar 30, 2015 Apr 13, 2015 Apr 27, 2015 May 04, 2015 May 11, 2015 May 11, 2015 May 11, 2015	3.826 3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.268 2.374 2.466 2.686 2.792 2.686 2.792 2.694 2.667 2.666 2.792 2.694 2.667 2.666 2.792 2.694 2.667 2.665 2.722 2.694 2.667 2.666 2.792 2.694 2.667 2.666 2.792 2.695 2.722 2.694 2.667 2.665 2.722 2.694 2.667 2.666 2.792 2.694 2.667 2.666 2.792 2.666 2.792 2.694 2.667 2.666 2.792 2.694 2.667 2.695 2.722 2.694 2.667 2.695 2.802 2.962 3.001 3.058	3.544615385	0.9732042
Aug 11, 2014 Aug 18, 2014 Aug 25, 2014 Sep 01, 2014 Sep 08, 2014 Sep 15, 2014 Sep 22, 2014 Sep 29, 2014 Oct 06, 2014 Oct 06, 2014 Oct 20, 2014 Oct 27, 2014 Nov 03, 2014 Nov 10, 2014 Nov 10, 2014 Nov 24, 2014 Dec 01, 2014 Dec 03, 2014 Dec 22, 2014 Dec 29, 2014 Dec 29, 2014 Jan 05, 2015 Jan 12, 2015 Jan 12, 2015 Jan 26, 2015 Feb 02, 2015 Feb 03, 2015 Feb 16, 2015 Feb 23, 2015 Mar 02, 2015 Mar 02, 2015 Mar 30, 2015 Mar 30, 2015 Mar 30, 2015 Apr 13, 2015 Apr 27, 2015 May 04, 2015 May 11, 2015 May 11, 2015 May 11, 2015 May 18, 2015	3.826 3.826 3.806 3.787 3.768 3.755 3.716 3.658 3.616 3.567 3.483 3.367 3.267 3.184 3.141 3.106 3.062 3.018 2.927 2.81 2.667 2.566 2.484 2.369 2.265 2.197 2.192 2.268 2.374 2.666 2.792 2.268 2.374 2.666 2.792 2.268 2.374 2.666 2.792 2.686 2.792 2.694 2.677 2.666 2.695 2.802 2.962 3.001 3.058 3.075	3.544615385	0.9732042

Jun 08, 2015	3.065		
Jun 15, 2015	3.087		
Jun 22, 2015	3.124		
Jun 29, 2015	3.121		
Jul 06, 2015	3.121		
Jul 13, 2015	3.142		
Jul 20, 2015	3.156		
Jul 27, 2015	3.143		
Aug 03, 2015	3.119		
Aug 10, 2015	3.067		
Aug 17, 2015	3.04		
Aug 24, 2015	3		
Aug 31, 2015	2.915		
Sep 07, 2015	2.853		
Sep 14, 2015	2.775		
Sep 21, 2015	2.697		
Sep 28, 2015	2.625		
Oct 05, 2015	2.568		
Oct 12, 2015	2.526		
Oct 19, 2015	2.487		
Oct 26, 2015	2.45		
Nov 02, 2015	2.419		
Nov 09, 2015	2.464		
Nov 16, 2015	2.453		
Nov 23, 2015	2.41		
Nov 30, 2015	2.375		
Dec 07, 2015	2.357		
Dec 14, 2015	2.337		
Dec 21, 2015	2.348		
Dec 28, 2015	2.36	2.709076923	0.7642795
Jan 04, 2016	2.361		
Jan 11, 2016	2.329		
Jan 18, 2016	2.264		
Jan 25, 2016	2.209		
Feb 01, 2016	2.142		
Feb 08, 2016	2.082		
Feb 15, 2016	2.009		
Feb 22, 2016	1.945		
Feb 29, 2016	1.935		
Mar 07, 2016	1.974		
Mar 14, 2016	2.114		
Mar 21, 2016	2.2		
Mar 28, 2016	2.274		
Apr 04, 2016	2.309		
Apr 11, 2016	2.31		

Fuel and CO ₂ Price Projection				
Year	Fuel Pr per Gal 5.766% avera inflatic 199%	ices Dollars lon (Inflated) % based on age yearly on for years 9 to 2015	CO₂ Price/ Metric Ton (Inflation) Provided in TIGER 2016 BCA Guidance Document Page 7.	
2015	\$	2.7090	45	
2016	\$	2.8652	46	
2017	\$	3.0304	47.00	
2018	\$	3.2051	49.00	
2019	\$	3.3899	51.00	
2020	\$	3.5853	52.00	
2021	\$	3.7920	52.00	
2022	\$	4.0107	54.00	
2023	\$	4.2419	55.00	
2024	\$	4,4865	56.00	
2025	\$	4.7451	57.00	
2026	\$	5.0187	58.00	
2027	\$	5.3081	60.00	
2028	\$	5.6141	61.00	
2029	\$	5.9378	62.00	
2030	\$	6.2802	63.00	
2031	\$	6.6422	63.00	
2032	\$	7.0252	65.00	
2033	\$	7.4302	66.00	
2034	\$	7.8586	67.00	
2035	\$	8.3117	68.00	
2036	\$	8.7909	69.00	
2037	\$	9.2978	71.00	
2038	\$	9.8338	72.00	
2039	\$	10.4008	73.00	

Year	West Coast Less California Regular Gasoline Prices Annually (Dollars per Gallon)	Inflation Rate (Percent)
1999	\$ 1.326	0.00%
2000	\$ 1.625	22.549%
2001	\$ 1.550	-4.615%
2002	\$ 1.411	-8.968%
2003	\$ 1.715	21.545%
2004	\$ 2.004	16.851%
2005	\$ 2.409	20.210%
2006	\$ 2.709	12.453%
2007	\$ 2.922	7.863%
2008	\$ 3.383	15.777%
2009	\$ 2.544	-24.800%
2010	\$ 2.980	17.138%
2011	\$ 3.659	22.785%
2012	\$ 3.805	3.990%
2013	\$ 3.642	-4.284%
2014	\$ 3.545	-2.663%
2015	\$ 2.709	-23.583%
averag	5.766%	

Average Yearly Fuel Price Inflation 1999 to 2015

Basis of Calculations for Table 4 Projected Yearly Reduction of Accidents and Associated Value of a Statistical Life and Injuries Savings					
	Purpose	Equation	Data		
Column 1	Year	No Equation			
Column 2	Annual Ridership Projections	[Previous Years Projected Ridership x (1+Projected Percentage)] Projected Percentages Years 1 through 5: 75%, 50%, 25%, 10%, 5%, and 3% for the remaining 15 years.	Data carried over form Table 2 Projected Ridership		
Column 3	Projected Vehicle Miles Traveled (VMT's)	VMT=Annual Ridership x 0.80 (80% of Projected Rail Passengers Use Private Automobile to Visit or Travel From West Wendover 115 Miles to Nearest Rail and Commercial Airport) x Segment Length (230 Miles)	See BCA Section C. Basis of Calculations for explanation for 80% private automobile use. Segment Length (230 Miles) = Roundtrip travel length between West Wendover, Nevada Elko Nevada, or Salt Lake City, Utah, the nearest locations with access to rail passenger service and scheduled air service.		
Column 4	Running Total of Annual VMT's	Total VMT's = Yearly VMT's (Column 3) + Previous Years Total VMT's (Column 4)	Totaling of VMT's Year over Year		
Column 5	Statistical Occurrence of PDO Accidents	VMT/PDO Accident = (100,000,000 (VMT) / 87 accidents) One accident is placed in the cell for each year (Column 5) as 1,149,425 VMT is reached in the running total (Column 4) over previous accident.	1 accident per 1,149,425 VMT is derived from Utah Department of Public Safety, <u>Utah Crash</u> <u>Summary 2014</u> , Crashes by County Page 45. Table Titled Crashes, Column PDO Crashes Rate Per 100 mill. VMT, Row Tooele County, 87. The Utah Crash Summary is found at: http://highwaysafety.utah.gov/wp- content/uploads/sites/22/2015/02/Utah-Crash- Summary-2014-website.pdf See BCA Section D. Types of Benefits Subsection 2. for explanation of how accident data was chosen.		
Column 6	Statistical Occurrence of Injury Accidents	VMT/Injury Accident = (100,000,000 (VMT) / 33.7 accidents) One accident is placed in the cell for each year (Column 6) as 2,967,359 VMT is reached in the running total (Column 4) over previous accident.	1 accident per 2,967,359 VMT is derived from Utah Department of Public Safety, <u>Utah Crash</u> <u>Summary 2014</u> , Crashes by County Page 45. Table Titled Crashes, Column Injury Crashes Rate Per 100 mill. VMT, Row Tooele County, 33.7. The Utah Crash Summary is found at: http://highwaysafety.utah.gov/wp- content/uploads/sites/22/2015/02/Utah-Crash- Summary-2014-website.pdf See BCA Section D. Types of Benefits Subsection 2. for explanation of		
Column 7	Statistical Occurrence of Fatal Accidents	VMT/Injury Accident = (100,000,000 (VMT) / 1.34 accidents) One accident is placed in the cell for each year (Column 7) as 74,626,865 VMT is reached in the running total (Column 4) over previous accident.	now accident data was chosen. 1 accident per 74,628,685 VMT is derived from Utah Department of Public Safety, <u>Utah Crash</u> <u>Summary 2014</u> , Crashes by County Page 45. Table Titled Crashes, Column Fatal Crashes Rate Per 100 mill. VMT, Row Tooele County, 1.34. The Utah Crash Summary is found at: http://highwaysafety.utah.gov/wp- content/uploads/sites/22/2015/02/Utah-Crash- Summary-2014-website.pdf See BCA Section D. Types of Benefits Subsection 2. for explanation of how accident data was chosen		
Column 8	Conversion of PDO Accidents to KABCO Scale (No Injury 69.2% of Total Accidents)	No. PDO Accidents (No Injury) =Total Number of Accidents from (Columns 5 + 6 + 7) x 69.2% The accidents are then placed randomly through the years (Column 8) matching up with PDO Accidents in (Column 5).	69.2% of total accidents is a state wide calculation that is found in the Utah Department of Public Safety, <u>Utah Crash Summary 2014</u> , Crash Conditions Page 42. Pie Chart Titled Crash Severity, No Injury The Utah Crash Summary is found at: http://highwaysafety.utah.gov/wp- content/uploads/sites/22/2015/02/Utah-Crash- Summary-2014-website.pdf See BCA Section D. Types of Benefits Subsection 2. for explanation of how accident data was chosen.		
Column 9	Conversion of Injury Accidents to KABCO Scale (Possible Injury 17.2% of Total Accidents)	No. Injury Accidents (Possible Injury) = Total Number of Accidents from (Columns 5 + 6 + 7) x 17.5% The number of accidents calculated are then placed randomly through the years (Column 9) matching up with Injury Accidents in (Column 6) making sure that they do not double up with other Injury Accidents in (Columns 10 and 11).	17.5% of total accidents is a state wide calculation that is found in the Utah Department of Public Safety, <u>Utah Crash Summary 2014</u> , Crash Conditions Page 42. Pie Chart Titled Crash Severity, Possible Injury The Utah Crash Summary is found at: http://highwaysafety.utah.gov/wp- content/uploads/sites/22/2015/02/Utah-Crash- Summary-2014-website.pdf See BCA Section D. Types of Benefits Subsection 2. for explanation of how accident data was chosen.		
Column 10	Conversion of Injury Accidents to KABCO Scale (Non-incapacitating Injury 10.7% of Total Accidents)	No. Injury Accidents (Non-incapacitating Injury) = Total Number of Accidents from (Columns 5 + 6 + 7) x 10.7% The number of accidents calculated are then placed randomly through the years (Column 10) matching up with Injury Accidents in (Column 6) making sure that they do not double up with other Injury Accidents in (Columns 10 and 11).	10.7% of total accidents is a state wide calculation that is found in the Utah Department of Public Safety, <u>Utah Crash Summary 2014</u> , Crash Conditions Page 42. Pie Chart Titled Crash Severity, Non-incapacitating Injury The Utah Crash Summary is found at: http://highwaysafety.utah.gov/wp- content/uploads/sites/22/2015/02/Utah-Crash- Summary-2014-website.pdf See BCA Section D. Types of Benefits Subsection 2. for explanation of how accident data was chosen		
Column 11	Conversion of Injury Accidents to KABCO Scale (Incapacitating Injury 2.2% of Total Accidents)	No. Injury Accidents (Incapacitating Injury) = Total Number of Accidents from (Columns 5 + 6 + 7) x 2.2% The number of accidents calculated are then placed randomly through the years (Column 11) matching up with Injury Accidents in (Column 6) making sure that they do not double up with other Injury Accidents in (Columns 9 and 10).	2.2% of total accidents is a state wide calculation that is found in the Utah Department of Public Safety. <u>Utah Crash Summary 2014</u> , Crash Conditions Page 42. Pie Chart Titled Crash Severity, Incapacitating Injury The Utah Crash Summary is found at: http://highwaysafety.utah.gov/wp- content/uploads/sites/22/2015/02/Utah-Crash- Summary-2014-website.pdf See BCA Section D. Types of Benefits Subsection 2. for explanation of how accident data was chosen.		
Column 12	Conversion of Injury Accidents to KABCO Scale (Death 0.4% of Total Accidents)	No. Fatal Accidents (Death) = Total Number of Accidents from (Columns 5 + 6 + 7) x 0.4% The number of accidents calculated are then placed randomly through the years (Column 12) matching up with Fatal Accidents in (Column 7).	U.4% of total accidents is a state wide calculation that is found in the Utah Department of Public Safety, <u>Utah Crash Summary 2014</u> , Crash Conditions Page 42. Pie Chart Titled Crash Severity, Death The Utah Crash Summary is found at: http://highwaysafety.utah.gov/wp- content/uploads/sites/22/2015/02/Utah-Crash- Summary-2014-website.pdf See BCA Section D. Types of Benefits Subsection 2. for explanation of how accident data was chosen.		
Column 13	Calculation of No Injury Accidents as AIS Values \$2015	\$ No Injury = No Injury Accidents (Column 8) x \$3,234.82.	Multiplication of data found in Spreadsheet. The \$3,234.82 comes from Table 5 AIS Value of a Statistical Life and Injuries Matrix Column 10 Dollar Value Single Accident No Injury \$2015, bottom Row Total		
Column 14	Calculation of Possible Injury Accidents as AIS Values \$2015	\$ Possible Injury = Possible Injury Accidents (Column 9) x \$63,854.50.	Multiplication of data found in Spreadsheet. The \$63,854.50 comes from Table 5 AIS Value of a Statistical Life and Injuries Matrix Column 11 Dollar Value of a Single Accident Possible Injury, bottom Row Table		
Column 15	Calculation of Non- incapacitating Injury Accidents as AIS Values \$2015	\$ Non-incapacitating Injury = Non-incapacitating Injury Accidents (Column 10) x \$125,049.89.	Multiplication of data found in Spreadsheet. The \$125,049.89 comes from Table 5 AIS Value of a Statistical Life and Injuries Matrix Column 12 Dollar Value of a Single Accident Non- incapacitating Injury, bottom Row Total.		
Column 16	Calculation of Incapacitating Injury Accidents as AIS Values \$2015	\$ Incapacitating Injury = Incapacitating Injury Accidents (Column 11) x \$459,120.29.	Multiplication of data found in Spreadsheet. The \$459,120.29 comes from Table 5 AIS Value of a Statistical Life and Injuries Matrix Column 13 Dollar Value of a Single Accident Incapacitating Injury, bottom Row Total.		
Column 17	Calculation of Fatal Accidents as AIS Values \$2015	\$ Fatal = Fatal Accidents (Column 12) x \$9,600,000.00.	Multiplication of data found in Spreadsheet. The \$9,600,000.00 comes from Table 5 AIS Value of a Statistical Life and Injuries Matrix Column 14 Dollar Value of a Single Accident Killed, bottom Row Total		
Column 18	Total Value of Injuries \$2015	Total \$ = (Column 14) + (Column 15) + (Column 16) + (Column 17)	Addition of Columns in Spreadsheet		
Column 19	Total Value of Injuries Accounting for Inflation	3% Inflation Value of Injuries = Total Value of Injuries (Column 18) x (1+0.03) x number of years number of years Calculated by (current year of row	Standard inflation equation applied to Total Value of Injuries.		
Column 20 Column 21	3% Net Present Value (NPV) of Injuries 7% Net Present Value (NPV) of Injuries	2020) 3% NPV = Injuries \$ (Column 19) / ((1+0.03) x number of years) 7% NPV = Injuries \$ (Column 19) / ((1+0.07) x number of years)	Standard Net Present Value equation applied to Value of Injuries Standard Net Present Value equation applied to Value of Injuries		

Basis of Calculations for Table 5 AIS Value of a Statistical Life and Injuries Matrix					
	Purpose	Equation	Data		
Column 1	AIS Scale	No Equation	AIS Scale comes directly from Table 4. found in TIGER and FASTLANE Benefit Cost Analysis (BCA) Resource Guide 2016, Page 13. Table 4 KABCO/ Unknown - AIS DATA Conversion Matrix (Column 1) AIS https://www.transportation.gov/sites/dot.gov/files/docs/BCA %20Resource%20Guide%202016.pdf		
Column 2	KABCO No Injury Probability across AIS Scale	No Equation	AIS conversion probabilities come directly from Table 4. found in TIGER and FASTLANE Benefit Cost Analysis (BCA) Resource Guide 2016, Page 13. Table 4 KABCO/ Unknown - AIS DATA Conversion Matrix (Column 2) No Injury https://www.transportation.gov/sites/dot.gov/files/docs/BCA %20Resource%20Guide%202016.pdf		
Column 3	KABCO Possible Injury Probability across AIS Scale	No Equation	AlS conversion probabilities come directly from Table 4. found in TIGER and FASTLANE Benefit Cost Analysis (BCA) Resource Guide 2016, Page 13. Table 4 KABCO/ Unknown - AIS DATA Conversion Matrix (Column 3) Possible Injury https://www.transportation.gov/sites/dot.gov/files/docs/BCA %20Resource%20Guide%202016.pdf		
Column 4	KABCO Non-incapacitating Injury Probability across AIS Scale	No Equation	AIS conversion probabilities come directly from Table 4. found in TIGER and FASTLANE Benefit Cost Analysis (BCA) Resource Guide 2016, Page 13. Table 4 KABCO/ Unknown - AIS DATA Conversion Matrix (Column 4) Non- incapacitating Injury https://www.transportation.gov/sites/dot.gov/files/docs/BCA %20Resource%20Guide%202016.pdf		
Column 5	KABCO Incapacitating Injury Probability across AIS Scale	No Equation	AIS conversion probabilities come directly from Table 4. found in TIGER and FASTLANE Benefit Cost Analysis (BCA) Resource Guide 2016, Page 13. Table 4 KABCO/ Unknown - AIS DATA Conversion Matrix (Column 5) Incapacitating Injury https://www.transportation.gov/sites/dot.gov/files/docs/BCA %20Resource%20Guide%202016.pdf		
Column 6	KABCO Killed Probability across AIS Scale	No Equation	AIS conversion probabilities come directly from Table 4. found in TIGER and FASTLANE Benefit Cost Analysis (BCA) Resource Guide 2016, Page 13. Table 4 KABCO/ Unknown - AIS DATA Conversion Matrix (Column 6) Killed https://www.transportation.gov/sites/dot.gov/files/docs/BCA %20Resource%20Guide%202016.pdf		
Column 7	Injury Severity Unknown Probability across AIS Scale	No Equation	AIS conversion probabilities come directly from Table 4. found in TIGER and FASTLANE Benefit Cost Analysis (BCA) Resource Guide 2016, Page 13. Table 4 KABCO/ Unknown - AIS DATA Conversion Matrix (Column 7) Injury Severity Unknown https://www.transportation.gov/sites/dot.gov/files/docs/BCA %20Resource%20Guide%202016.pdf		
Column 8	# Non-fatal Accidents Unknown if Injured Probability across AIS Scale	No Equation	AIS conversion probabilities come directly from Table 4. found in TIGER and FASTLANE Benefit Cost Analysis (BCA) Resource Guide 2016, Page 13. Table 4 KABCO/ Unknown - AIS DATA Conversion Matrix (Column 8) # Non- fatal Accidents Unknown if Injured https://www.transportation.gov/sites/dot.gov/files/docs/BCA %20Resource%20Guide%202016.pdf		
Column 9	Dollar Value of AIS Scale (\$2015)	No Equation	Dollar Value of AIS Scale comes directly from Table 5. found in TIGER and FASTLANE Benefit Cost Analysis (BCA) Resource Guide 2016, Page 13. Table 5 KABCO - AIS Data Conversion for KABCO "O" Accident (Column 3) AIS Dollar Values (\$2015) https://www.transportation.gov/sites/dot.gov/files/docs/BCA %20Resource%20Guide%202016.pdf		
Column 10	Dollar Value Single Accident No Injury (\$2015)	\$ = AIS Probability No Injury (Column 2) x Dollar Value AIS Scale (Column 9) multiplied row by row and then summed up as Total Value bottom Row of (Column 10)	Data derived from multiplication of values in spreadsheet.		
Column 11	Dollar Value Single Accident Possible Injury (\$2015)	\$ = AIS Probability Possible Injury (Column 3) x Dollar Value AIS Scale (Column 9) multiplied row by row and then summed up as Total Value bottom Row of (Column 11)	Data derived from multiplication of values in spreadsheet.		
Column 12	Dollar Value Single Accident Non-incapacitating Injury (\$2015)	\$ = AIS Probability Non-incapacitating Injury (Column 4) x Dollar Value AIS Scale (Column 9) multiplied row by row and then summed up as Total Value bottom Row of (Column 12)	Data derived from multiplication of values in spreadsheet.		
Column 13	Dollar Value Single Accident Incapacitating Injury (\$2015)	\$ = AIS Probability Incapacitating Injury (Column 5) x Dollar Value AIS Scale (Column 9) multiplied row by row and then summed up as Total Value bottom Row of (Column 13)	Data derived from multiplication of values in spreadsheet.		
Column 14	Dollar Value Single Accident Killed (\$2015)	\$ = AIS Probability Killed (Column 6) x Dollar Value AIS Scale (Column 9) multiplied row by row and then summed up as Total Value bottom Row of (Column 14)	Data derived from multiplication of values in spreadsheet.		
Column 15	Dollar Value Single Accident Injury Severity Unknown (\$2015)	\$ = AIS Probability Injury Severity Unknown (Column 7) x Dollar Value AIS Scale (Column 9) multiplied row by row and then summed up as Total Value bottom Row of (Column 15)	Data derived from multiplication of values in spreadsheet.		
Column 16	Dollar Value Single Accident # Non-fatal Accidents Unknown if Injured (\$2015)	\$ = AIS Probability # Non-fatal Accidents Unknown if Injured (Column 8) x Dollar Value AIS Scale (Column 9) multiplied row by row and then summed up as Total Value bottom Row of (Column 16)	Data derived from multiplication of values in spreadsheet.		