



GLOBAL CONCERNS

An In-Depth Examination of U.S. Travel Web Sites Selling International Airline Tickets

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TABLE OF CONTENTS

Executive Summary	3
Consumer Reports WebWatch Mission Statement	7
Consumer Reports WebWatch Travel Projects, 2002-2004	8
Testing Methodology and Parameters	9
Selection of Web Sites.....	9
Methodology	11
Testing Parameters and Specific Testing Criteria	11
Selection of Results	14
Currency Issues.....	14
Rounding of Fares.....	15
Availability of Fares	15
Valid Tests	15
Invalid Data	15
Technical or System Failures.....	16
Testing Results, Rankings, and Conclusions	17
Lowest Fares for All Tests	17
Closest Fares for All Tests.....	19
Lowest Fares for Individual Tests	21
Findings and Concerns	26
Inaccurate Displays of and Availability	26
Tax and Fee Information	28
Rounding Down of Fares	29
Other Issues	29
Notifications to Users	30
Tips for Booking International Airfares Online	32
Appendix I: DOT Consumer Complaints	34

EXECUTIVE SUMMARY

This report was commissioned by Consumer Reports WebWatch in order to determine the degree of competition in the online marketplace for international airfares. After rigorous testing and analysis, our clear conclusion is that online competition within the international airfare arena is quite robust indeed. Despite relatively high ticket prices, many of the sites closely or exactly matched their competitors' fares repeatedly throughout this testing.

This project involved several months of planning, testing, and analyzing results. Consumer Reports WebWatch selected the three leading "integrated" travel Web sites that offer listings of competing carriers: Expedia, Orbitz, and Travelocity. These three sites were included in all 150 trials. In addition, "branded" Web sites maintained by individual airlines were also tested, though no single site was included in all 150 trials. They included sites maintained by five U.S. carriers (American, Continental, Delta, Northwest/KLM, and United) and eight foreign carriers (Air France, Air Jamaica, British Airways, Korean Air, Lufthansa, Singapore, Thai Airways, and Virgin Atlantic).

A close analysis of the results has determined that Orbitz, one of the three integrated sites, is the source of the best and worst news for consumers. Orbitz was so adept at

providing lowest fares that it posted some of the most impressive statistics ever recorded by Consumer Reports WebWatch. However, testers found the Orbitz fare display tools to be inaccurate and cumbersome. The Orbitz site chronically presented listings for flights that

KEY FINDINGS

In Consumer Reports WebWatch's first-ever analysis of international airfares online, we discovered:

- One in five fares provided by Orbitz increased when selected—in one case, by \$1,098.
- Integrated travel sites—Orbitz, Expedia, Travelocity—consistently outperformed airlines' own sites.
- Orbitz led all sites by providing lowest fares 30% of the time.
- Incorrect total fares were displayed in 43% of all valid results on Continental Airlines' site.

were unavailable and returned fares that changed during the shopping process, most often increasing.

KEY FINDINGS

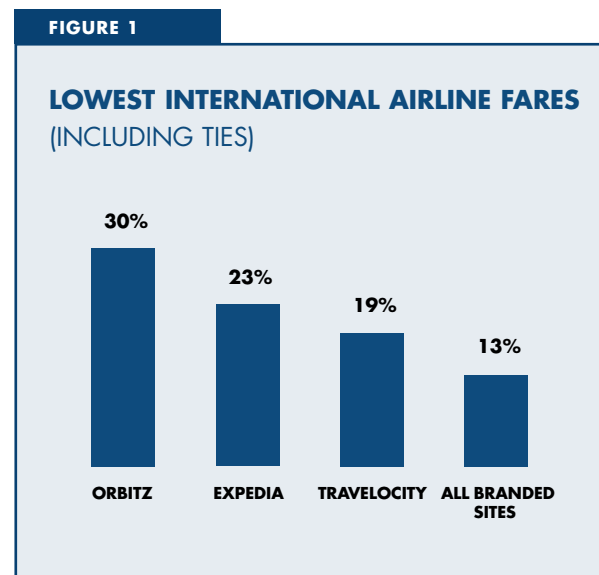
■ The Orbitz flight selection “Matrix™,” failed repeatedly.

While in theory it is an extremely consumer-friendly comparison shopping tool, in practice it often failed to lead consumers to the lowest priced airfare. In 150 trials, the lowest posted fares increased in price 21% of the time and decreased in price 5% of the time. In addition, the lowest-priced flights were not available 19% of the time and could not be booked online an additional 5% of the time. In many cases, these problems occurred multiple times within a single query and required extensive cross-checking of posted listings.

[MORE ON PAGE 26 >>](#)

■ Travelocity and Expedia also displayed inaccurate pricing and booking information, though neither site’s displays were flawed as often as the Orbitz Matrix™.

With Expedia, lowest fares increased 5% of the time and decreased 3% of the time and lowest-priced flights were not available for booking 2% of the time. With Travelocity, lowest fares increased 9% of the time and decreased 1% of the time and lowest-priced flights were not available for booking 1% of the time. There were no



such problems with any of the branded airline sites.

[MORE ON PAGE 28 >>](#)

■ The “fare-jumping” problem reached its nadir with Orbitz, when the posted price of a round-trip flight between San Francisco and Brussels suddenly increased by \$1,098.

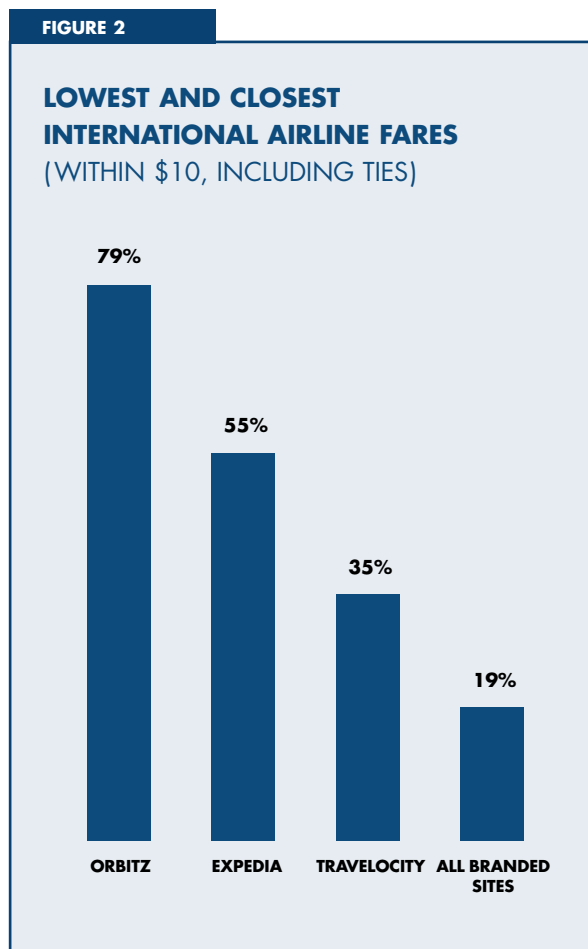
[MORE ON PAGE 27 >>](#)

■ All three integrated travel Web sites now post written warnings to users when fares suddenly increase or decrease mid-booking.

In the past, Consumer Reports WebWatch was highly critical of the lack of such notifications. [MORE ON PAGE 30 >>](#)

■ Tax and fee information was unclear on some sites

and Consumer Reports WebWatch discarded results from two additional airline sites (EVA Airways and Japan Airlines) because viable and accurate pricing



comparisons were not possible. Also, the total fare mechanism repeatedly malfunctioned on the Continental Airlines site, when taxes and fees were posted incorrectly 43% of the time. [MORE ON PAGE 28 >>](#)

■ **Orbitz comfortably led all 16 sites** by providing the highest percentage of lowest fares (30%), ahead of Northwest/KLM (27%), Expedia (23%), and Travelocity (19%). [MORE ON PAGE 17 >>](#)

■ **Orbitz dominated all competitors** when the results were adjusted to include not just lowest fares but also “closest” fares (within \$10 of the lowest fare) by providing the lowest or closest fare in four out of five cases. Orbitz led with 79%, followed by Expedia with 55% and Travelocity with 35%. [MORE ON PAGE 19 >>](#)

■ **Orbitz, Expedia, and Travelocity** consistently provided a higher number and percentage of lowest fares than the branded airline sites did collectively. It’s important to note that this was accomplished despite all three of these integrated sites charging booking fees in most cases. [MORE ON PAGE 19 >>](#)

■ **Northwest/KLM, United, and American** performed very well at providing lowest fares. And some foreign airline sites also performed well, albeit with much smaller test samples. [MORE ON PAGE 20 >>](#)

■ **When individual results were tabulated**, in one test American led all sites when searching for fares on European routes and in another test United led all sites when searching for fares on Asian routes. [MORE ON PAGE 22 >>](#)

■ **Some of the branded airline sites repeatedly returned technical “glitches”** when searching for fares. The three integrated sites performed without any serious problems. [MORE ON PAGE 29 >>](#)

■ **One final observation:** Two of these Web sites—Orbitz and Travelocity—always presented integrated displays with the dollar amounts rounded down, regardless of the cent value. [MORE ON PAGE 29 >>](#)

CONSUMER TIPS

Unfortunately, there are risks inherent in shopping for airline seats on the Internet. And due to the higher cost and more complicated itineraries of international airfares, the risks are greater as well. Consumer Reports WebWatch has formulated a list of 11 guidelines that

FIGURE 3

WEB SITES TESTED FOR THIS REPORT

INTEGRATED SITES

ORBITZ
EXPEDIA
TRAVELOCITY

BRANDED SITES

LUFTHANSA
SINGAPORE
NORTHWEST / KLM
UNITED
AMERICAN
CONTINENTAL
DELTA
VIRGIN ATLANTIC
AIR JAMAICA
KOREAN AIR
THAI AIRWAYS
AIR FRANCE
BRITISH AIRWAYS

**ALMOST HALF (46%)
OF ALL LEISURE
TRAVELERS NOW BOOK
AT LEAST PART OF THEIR
VACATIONS ONLINE.**

consumers should ALWAYS follow when booking travel online. The guidelines are contained in this report. [MORE ON PAGE 32 >>](#)

CREDITS

The project was directed by William J. McGee, a travel journalist and consultant to Consumer Reports WebWatch and the Editor of *Consumer Reports Travel Letter* from 2000 to 2002. The project was completely funded by Consumer Reports WebWatch. Employees of Consumer Reports WebWatch assisted in drafting the methodology, participated in the testing, and contributed to this research report. The research report was edited by Beau Brendler, the director of Consumer Reports WebWatch.

BACKGROUND INFORMATION

Consumer Reports WebWatch has noted for some time now that travel remains the largest sector of Internet commerce. Even as it retains that position, the online travel industry continues to make surprising gains. Forrester Research of Cambridge, Mass., estimates nearly half (46%) of all leisure travelers now book at least part of their vacations online.

The most important component of most travel itineraries is, of course, the purchase of airline seats. Separately and together, Consumer Reports WebWatch and the now-defunct *Consumer Reports Travel Letter* have repeatedly analyzed a wide variety of online airline products, but in all instances this testing focused on searching for domestic airfares. This project expands that focus to the international airline sector for the first time.

According to the Bureau of Transportation Statistics of the U.S. Department of Transportation, 23.6 million airline passengers flew to a foreign destination from the U.S. in 2002 (while 25.0 million passengers flew here from other

countries). Not surprisingly, these numbers were down from pre-Sept. 11, 2001 figures, but that did not reduce—and in fact may have increased—efforts by online travel sellers and the airlines themselves to spur more consumers to buy international airline tickets via the Internet.

For the first time, Consumer Reports WebWatch conducted testing of airline Web sites while searching for flight and fare data on international rather than domestic routes. This was an effort to determine how certain key factors affect the international market, including the following:

- base ticket prices are usually higher on average for international routes than for domestic routes;
- the international tax and fee structure is generally more complex;
- airline “code-sharing” and marketing partnerships are more common among international carriers;
- currency conversions may affect total pricing—that is, inclusive of all taxes, fees and surcharges.

CONSUMER REPORTS WEBWATCH MISSION STATEMENT

Consumer Reports WebWatch is a project of Consumers Union, the non-profit publisher of *Consumer Reports Travel Letter* magazine and ConsumerReports.org. The project is supported by grants from The Pew Charitable Trusts, the John S. and James L. Knight Foundation, and the Open Society Institute. Consumer Reports WebWatch in turn funded the research and production of this report, as it has done with similar reports on Web site credibility, airline ticket-booking Web sites (performed and published in conjunction with *Consumer Reports Travel Letter*,

which ceased publication in December 2002), search engines, health Web sites, and other topics. Consumer Reports WebWatch's mission is to improve the credibility of Web sites, through research, through articulation of best practices guidelines in specific sectors of Web publishing, and by working with ConsumerReports.org to produce ratings of Web sites using those guidelines. Consumer Reports WebWatch's research, guidelines, and e-Ratings are available for free at: <http://www.consumerwebwatch.org>.

CONSUMER REPORTS WEBWATCH TRAVEL PROJECTS, 2002-2004

Consumer Reports WebWatch remains committed to testing, researching, and reporting on the Internet. But since travel is the single largest source of online commerce, Consumer Reports WebWatch will continue to focus on providing unbiased, detailed, accurate, and repetitive testing of travel Web sites.

Here is a summary of the travel Web site projects undertaken to date:

■ Consumer Reports WebWatch teamed with *Consumer Reports Travel Letter* (which ceased publication in December 2002) to extensively test travel Web sites providing domestic airfares and released the results in June 2002. This report is available at:
www.consumerreports.org/main/detailv2.jsp?CONTENT%3C%3Ecnt_id=158287&FOLDER%3C%3Efolder_id=158259&bmUID=1033759487281

■ “Booking Hotels Online: An In-Depth Examination of Leading Hotel Web Sites,” was a research report that was released in April 2003. This report is available at:
<http://www.consumerwebwatch.org/dynamic/travel-report-booking-hotels-online-abstract.cfm>

■ “An Analysis of the Potential Benefits and Dangers of Booking Through a Car Rental Web Site,” was a research report that was released in October 2003. This report is available at:

<http://www.consumerwebwatch.org/dynamic/travel-report-renting-cars-online-abstract.cfm>

■ “Booking and Bidding Site Unseen: A Consumer’s Guide to Opaque Travel Web Sites,” was a research report that examined alternative “opaque” travel booking Web sites and was released in December, 2003. This report is available at:

<http://www.consumerwebwatch.org/dynamic/travel-report-booking-bidding-abstract.cfm>

Consumer Reports WebWatch will continue to test and evaluate travel Web sites throughout 2004 and 2005. Forthcoming projects include an international study of airline ticket-booking sites in conjunction with consumer organizations in the Netherlands, the United Kingdom, France, Germany, Belgium and Denmark, set for publication in Fall 2004. In addition, an examination of booking sites for premium (first-class and business-class) airline seats is scheduled for publication later in 2004.

TESTING METHODOLOGY AND PARAMETERS

As part of its ongoing commitment to examine all aspects of online travel, Consumer Reports WebWatch recognized that a clear need had arisen to expand past testing parameters. Previously, testing of airline booking sites had focused exclusively on domestic airfares. However, a combination of factors indicated that the online display of international airfares might present issues unique to this sector of the travel industry.

What follows is an in-depth presentation of the testing methodology and parameters.

SELECTION OF WEB SITES

Consumer Reports WebWatch analyzed market share data and other factors before deciding which Web sites to include in this testing. Included were the three largest integrated travel Web sites: Expedia, Orbitz, and Travelocity.

In addition, “branded” booking sites maintained by individual airlines were included as well. These included

four sites owned by domestic carriers, eight sites owned by foreign carriers, and one site jointly owned by both a domestic carrier and a foreign carrier. Thus the five largest U.S. airlines were included. As for the foreign airlines, they were selected after the routes were selected (see below). This was to ensure that the testing would include dominant carriers on these international routes, which were selected due to passenger traffic volume as well as geographical balance.

What follows is a complete listing of these travel Web sites.

Integrated Travel Web Sites:

- Expedia (www.expedia.com) is based in Bellevue, Wash., and is owned by IAC/InterActiveCorp (USA Interactive). Expedia was formerly owned by Microsoft. Expedia is a sister company of Hotels.com and Hotwire.
- Orbitz (www.orbitz.com) is based in Chicago and is owned by the nation’s five largest airlines: American Airlines, Continental Airlines, Delta Air

Lines, Northwest Airlines, and United Airlines. Orbitz has no travel-related sister companies.

- Travelocity (www.travelocity.com) is based in Fort Worth, Texas and is owned by Sabre Holdings. Travelocity was formerly owned by AMR, the parent company of American Airlines. Travelocity is a sister company of Sabre Travel Network, the global distribution system (GDS) used by travel agencies.

Domestic Branded Airline Web Sites:

- American Airlines (www.aa.com), is based in Ft. Worth, Texas.
- Continental Airlines (www.continental.com), is based in Houston.
- Delta Air Lines (www.delta.com), is based in Atlanta.
- United Airlines (www.united.com), is based in Chicago.

Foreign Branded Airline Web Sites:

- Air France (www.airfrance.us), is based in France.
- Air Jamaica (www.airjamaica.com), is based in Jamaica.
- British Airways (www.britishairways.com), is based in Great Britain.
- Korean Air (www.koreanair.com), is based in South Korea.
- Lufthansa German Airlines (<http://cms.lufthansa.com/fly/us/en/homepage>), is based in Germany.
- Singapore Airlines (www.singaporeair.com), is based in Singapore.
- Thai Airways International (www.thaiair.com), is based in Thailand.

- Virgin Atlantic Airways (www.virgin-atlantic.com), is based in Great Britain.

Joint Domestic/Foreign Branded Airline Web Sites:

- Northwest Airlines/KLM Royal Dutch Airlines (www.nwa.com), are based in St. Paul, Minn. and the Netherlands, respectively.

It should be noted that this was the first Consumer Reports WebWatch testing project that included Orbitz, as well as the Web sites of all five of its airline owners.

In addition, Consumer Reports WebWatch included two other foreign airline Web sites in this testing, but results were discarded because total prices were not labeled clearly, making head-to-head comparisons of airfares impossible:

- EVA Airways (www.evaair.com), is based in Taiwan.
- Japan Airlines (www.japanair.com), is based in Japan.

**TESTING CONSISTED
OF 150 SEPARATE
TRIALS FOR A TOTAL
OF 911 QUERIES
ACROSS 16 WEB SITES.
EXPEDIA, ORBITZ
AND TRAVELOCITY
WERE INCLUDED IN ALL
150 TRIALS.**

METHODOLOGY

All testing conducted by Consumer Reports WebWatch was performed by trained individuals upon completion of dry-run testing. Statistical analysis provided by Consumers Union led to the creation of five separate tests, grouped into four separate testing days. Testing times were varied throughout the course of two weeks in mid-December 2003.

All testing was scheduled in advance and completed simultaneously in real-time. All testers queried airfares from previously distributed itineraries. In all cases, airfares were available for booking, but in no cases were airline seats purchased.

In total, this project consisted of 150 separate trials, for a total of 911 queries across all 16 Web sites. Of these queries, 903 were deemed valid, after eight were discarded due to errors on the part of Consumer Reports WebWatch.

Expedia, Orbitz, and Travelocity were included in all 150 trials, but none of the branded airline sites were included in all 150 trials. In addition, an airline site was not included in any trial if that airline did not serve the route in question.

TESTING PARAMETERS AND SPECIFIC TESTING CRITERIA

Each test consisted of searching for specific airfares in U.S. dollars on high-volume international routes. All flights originated from airports within the United States. The routes included destinations in the Caribbean, Latin America, Europe, and Asia.

Consumer Reports WebWatch examined passenger traffic and airfare data provided by the Bureau of Transportation Statistics of the U.S. Department of Transportation in selecting these routes. All of the foreign countries selected were among the busiest destinations for air travelers departing the United States in 2002, the most recent year that annual

statistics were available at time of testing.

As for the cities of departure, care was taken to ensure that the origins included in this testing were not only high-volume markets and geographically diverse, but that they also represented a fair sampling of domestic airline gateways. For example, each departure city (New York/Newark, Chicago, Atlanta, etc.) was a major hub and/or international gateway for at least one of the U.S. carriers being tested, as well as one or more of the foreign carriers. Conversely, each U.S. carrier was represented in each of the five tests by at least one of its hubs and/or international gateways as a point of origin.

Many but not all of these routes offered nonstop service and all offered competition in the form of service provided by multiple carriers. Due to the nature of international airline travel, the “mix” of leisure and business routes was less critical than it was for domestic airfare testing.

For TEST #1, the routes were:

- 1) New York/Newark—London
- 2) New York/Newark—Paris
- 3) New York/Newark—Amsterdam
- 4) New York/Newark—Frankfurt
- 5) New York/Newark—Brussels
- 6) Chicago—London
- 7) Chicago—Paris
- 8) Chicago—Amsterdam
- 9) Chicago—Frankfurt
- 10) Chicago—Brussels
- 11) Atlanta—London
- 12) Atlanta—Paris
- 13) Atlanta—Amsterdam
- 14) Atlanta—Frankfurt
- 15) Atlanta—Brussels
- 16) Dallas/Ft. Worth—London
- 17) Dallas/Ft. Worth—Paris
- 18) Dallas/Ft. Worth—Amsterdam
- 19) Dallas/Ft. Worth—Frankfurt
- 20) Dallas/Ft. Worth—Brussels
- 21) San Francisco/Oakland—London
- 22) San Francisco/Oakland—Paris
- 23) San Francisco/Oakland—Amsterdam

- 24) San Francisco/Oakland—Frankfurt
- 25) San Francisco/Oakland—Brussels
- 26) Los Angeles—London
- 27) Los Angeles—Paris
- 28) Los Angeles—Amsterdam
- 29) Los Angeles—Frankfurt
- 30) Los Angeles—Brussels

For TEST #2, the routes were:

- 1) New York/Newark—London
- 2) New York/Newark—Paris
- 3) New York/Newark—Amsterdam
- 4) New York/Newark—Frankfurt
- 5) New York/Newark—Brussels
- 6) Chicago—London
- 7) Chicago—Paris
- 8) Chicago—Amsterdam
- 9) Chicago—Frankfurt
- 10) Chicago—Brussels
- 11) Atlanta—London
- 12) Atlanta—Paris
- 13) Atlanta—Amsterdam
- 14) Atlanta—Frankfurt
- 15) Atlanta—Brussels
- 16) Dallas/Ft. Worth—London
- 17) Dallas/Ft. Worth—Paris
- 18) Dallas/Ft. Worth—Amsterdam
- 19) Dallas/Ft. Worth—Frankfurt
- 20) Dallas/Ft. Worth—Brussels
- 21) Minneapolis/St. Paul—London
- 22) Minneapolis/St. Paul—Paris
- 23) Minneapolis/St. Paul—Amsterdam
- 24) Minneapolis/St. Paul—Frankfurt
- 25) Minneapolis/St. Paul—Brussels
- 26) Los Angeles—London
- 27) Los Angeles—Paris
- 28) Los Angeles—Amsterdam
- 29) Los Angeles—Frankfurt
- 30) Los Angeles—Brussels

For TEST #3, the routes were:

- 1) New York/Newark—London
- 2) Chicago—London
- 3) Atlanta—London
- 4) Dallas/Ft. Worth—London

- 5) Minneapolis/St. Paul—London
- 6) Los Angeles—London
- 7) New York/Newark—Paris
- 8) Chicago—Paris
- 9) Atlanta—Paris
- 10) Dallas/Ft. Worth—Paris
- 11) Minneapolis/St. Paul—Paris
- 12) Los Angeles—Paris
- 13) New York/Newark—Amsterdam
- 14) Chicago—Amsterdam
- 15) Atlanta—Amsterdam
- 16) Dallas/Ft. Worth—Amsterdam
- 17) Minneapolis/St. Paul—Amsterdam
- 18) Los Angeles—Amsterdam
- 19) New York/Newark—Frankfurt
- 20) Chicago—Frankfurt
- 21) Atlanta—Frankfurt
- 22) Dallas/Ft. Worth—Frankfurt
- 23) Minneapolis/St. Paul—Frankfurt
- 24) Los Angeles—Frankfurt
- 25) New York/Newark—Brussels
- 26) Chicago—Brussels
- 27) Atlanta—Brussels
- 28) Dallas/Ft. Worth—Brussels
- 29) Minneapolis/St. Paul—Brussels
- 30) Los Angeles—Brussels

For TEST #4, the routes were:

- 1) New York/Newark—San Juan
- 2) New York/Newark—Montego Bay
- 3) New York/Newark—Cancun
- 4) New York/Newark—Grand Cayman
- 5) New York/Newark—Rio de Janeiro
- 6) Chicago—San Juan
- 7) Chicago—Montego Bay
- 8) Chicago—Cancun
- 9) Chicago—Grand Cayman
- 10) Chicago—Rio de Janeiro
- 11) Atlanta—San Juan
- 12) Atlanta—Montego Bay
- 13) Atlanta—Cancun
- 14) Atlanta—Grand Cayman
- 15) Atlanta—Rio de Janeiro
- 16) Miami—San Juan
- 17) Miami—Montego Bay

- 18) Miami—Cancun
- 19) Miami—Grand Cayman
- 20) Miami—Rio de Janeiro
- 21) Minneapolis/St. Paul—San Juan
- 22) Minneapolis/St. Paul—Montego Bay
- 23) Minneapolis/St. Paul—Cancun
- 24) Minneapolis/St. Paul—Grand Cayman
- 25) Minneapolis/St. Paul—Rio de Janeiro
- 26) Los Angeles—San Juan
- 27) Los Angeles—Montego Bay
- 28) Los Angeles—Cancun
- 29) Los Angeles—Grand Cayman
- 30) Los Angeles—Rio de Janeiro

For TEST #5, the routes were:

- 1) New York/Newark—Tokyo
- 2) Chicago—Tokyo
- 3) Atlanta—Tokyo
- 4) San Francisco—Tokyo
- 5) Los Angeles—Tokyo
- 6) New York/Newark—Seoul
- 7) Chicago—Seoul
- 8) Atlanta—Seoul
- 9) San Francisco—Seoul
- 10) Los Angeles—Seoul
- 11) New York/Newark—Bangkok
- 12) Chicago—Bangkok
- 13) Atlanta—Bangkok
- 14) San Francisco—Bangkok
- 15) Los Angeles—Bangkok
- 16) New York/Newark—Taipei
- 17) Chicago—Taipei
- 18) Atlanta—Taipei
- 19) San Francisco—Taipei
- 20) Los Angeles—Taipei
- 21) New York/Newark—Singapore
- 22) Chicago—Singapore
- 23) Atlanta—Singapore
- 24) San Francisco—Singapore
- 25) Los Angeles—Singapore
- 26) Minneapolis/St. Paul—Tokyo
- 27) Minneapolis/St. Paul—Seoul
- 28) Minneapolis/St. Paul—Bangkok
- 29) Minneapolis/St. Paul—Taipei
- 30) Minneapolis/St. Paul—Singapore

Each test consisted of searching for international airfares. Booking criteria were established in advance. For all five tests, these criteria included:

- One adult fare
- Economy or coach class
- Round-trip
- Any local airport specified
- Connecting flights acceptable
- Multiple-airline itineraries acceptable
- Flight times for any time of day acceptable for both departure and arrival
- No special or corporate rate programs (government, military, AAA, AARP, senior, student, child, etc.)
- No frequent flyer program membership

NOTE: Not all Web sites allowed such specificity for each test, but these parameters were established in advance to ensure consistency.

The nature of searching for international airfares required changes to established Consumer Reports WebWatch airline booking criteria. Specifically, this meant accepting 1) connecting flights in addition to non-stop and direct flights; 2) multiple-airline itineraries in addition to single-airline itineraries; and 3) departure and arrival times throughout the day. These changes were implemented to reflect the differences inherent in the airlines' international route structures, since many foreign destinations are served only once a day and/or require connecting flights to international gateways, either on the same carrier or on that carrier's marketing and code-sharing partner(s).

In order to simulate a variety of trips, the advance booking windows varied. The booking times were:

- TEST #1 (Advance Booking): 28 days in advance
- TEST #2 (Advance Booking): 28 days in advance
- TEST #3 (Advance Booking): 28 days in advance
- TEST #4 (Advance Booking): 14 days in advance
- TEST #5 (Advance Booking): 90 days in advance

Because of the nature of international travel, Consumer Reports WebWatch departed from earlier methodology and did not simulate a variety of trips by varying the

length of the stays with 2-day trips, 3-day trips, etc. However, all trips included a Saturday-night stay-over, which often reduces the cost of the airfare. For this project, the stays were:

- TEST #1: 7 days
- TEST #2: 7 days
- TEST #3: 7 days
- TEST #4: 7 days
- TEST #5: 7 days

SELECTION OF RESULTS

As noted in previous reports, Consumer Reports WebWatch no longer analyzes the lowest fares based upon the first fare returned, a method previously employed by Consumer Reports WebWatch (and earlier employed by *Consumer Reports Travel Letter*). This is because most integrated travel Web site screens no longer resemble the vertical presentations pioneered by global distribution systems (GDSs), and the lowest fare is not always listed first. Indeed, with some screens, it's not always clear which position the "first" listing occupies.

In general, Consumer Reports WebWatch selected fares culled from either the first five returns or the first full page of returns, whichever was greater. Most of the branded airline sites provided traditional vertical listings, and in some cases the airline sites provided only one fare for each query. But the three integrated Web sites—Expedia, Orbitz, and Travelocity—offered additional display tools.

Orbitz employed its Matrix™ display, which provided a combination of vertical and horizontal interfaces with multiple fares and multiple airlines presented on a single screen. For these results, the lowest fare was selected within the appropriate category from among all the carriers presented within Orbitz's grid. A detailed discussion of the Orbitz grid is on page 26.

Both Expedia and Travelocity provided more traditional vertical listings. However, both Web sites offered horizontal summaries of the lowest fares at the top of these vertical listings, in a similar grid. As noted

by Expedia, these proved to be useful as a "quick compare" tool.

Note that all rankings included ties. Therefore it was theoretically possible that for every fare query, every Web site tested could have provided the lowest airfare for that query.

A final note: Consumer Reports WebWatch testers were often provided with attractive fares that were outside the parameters of the query (e.g., \$50 less expensive for a flight departing on the next day). While the average consumer may very well opt to book such a fare, in all cases our testers only selected fares that were applicable to that specific itinerary. Selecting lower fares that did not adhere to these specifics would provide that Web site with an advantage over other Web sites that were not queried outside the original itinerary.

CURRENCY ISSUES

All airfares were provided in U.S. dollars, including fares provided by foreign airlines. However, Consumer Reports WebWatch altered its previous methodology by tabulating total airfares that included all applicable

**ORBITZ AND
TRAVELOCITY ALWAYS
PRESENTED DISPLAYS
WITH DOLLAR
AMOUNTS ROUNDED
DOWN, REGARDLESS
OF THE CENT VALUE.**

taxes, fees, and booking costs. Previously, base fares and base rates were used in most cases.

There were two reasons for this change. 1) For most of these international airfare listings, only total fares were provided. Therefore, using total fares provided a better apples-to-apples comparison. 2) In many cases, total airfares included booking fees levied by the Web site itself. Therefore, using total fares provided a more accurate tabulation of a consumer's "bottom-line" cost.

It should be noted, for example, that in many head-to-head comparisons, the branded airline sites did not charge a booking fee, while Expedia and Travelocity charged a \$5 booking fee, and Orbitz charged a \$10 booking fee. A detailed discussion of this issue is on page 28.

Once the decision was made to tabulate total airfares, the testing results from two branded airline Web sites EVA Airways and Japan Airlines—were discarded as previously noted. This was because the total fares provided were not labeled clearly with taxes and fees, so apples-to-apples comparisons with other fares were not possible.

ROUNDING OF FARES

Consumer Reports WebWatch's rounding of amounts for this project was consistent with its methodology for past projects. That is, amounts were rounded off to the nearest dollar for all airfares.

However, two of the integrated Web sites—Orbitz and Travelocity—always presented displays with dollar amounts rounded down, regardless of the cent value. When this occurred, Consumer Reports WebWatch corrected the rounding of the amount (i.e., if the cent amount was between 50¢ and 99¢, the amount was rounded up).

AVAILABILITY OF FARES

For this project, Consumer Reports WebWatch did not book any of the airline fares provided. In all cases, the

Web sites stated that the airline seats requested were available. When the airfare provided was not available, the next lowest fare that was available was used. In some cases, this meant that multiple fares repeatedly were not available for the same query. Specific issues concerning availability of fares are discussed on page 26.

VALID TESTS

All of the Web sites were evaluated solely on valid tests. If there was an error on the part of Consumer Reports WebWatch, this was deemed an invalid test. Invalid tests were eliminated and did not affect the final rankings. These errors included incorrect data entries, insufficient returns of data, and printing errors. Overall, there were eight errors committed by Consumer Reports WebWatch testers for all 911 queries. This translated into a completion percentage of 99.1%.

INVALID DATA

Through no fault of the Consumer Reports WebWatch testers, many of these Web sites failed to provide valid data on some tests.

In some cases, these failures affected the Web site's final rankings. These could have been due to a variety of factors, including:

- Results outside the specific parameters requested;
- Space not available for the specific itinerary requested;
- Airline seats sold out on those dates;
- The Web site could not price the flight selected;
- The Web site could not tabulate total airfare with all taxes and fees;
- Technical or system failures.

The following Web sites failed to provide valid data for at least one query:

- Air Jamaica
- American
- Continental
- Delta

- Expedia
- Korean Air
- Northwest/KLM
- Travelocity
- United

Orbitz provided valid data for all 150 queries. The remaining branded airline Web sites (excluding EVA Airways and Japan Airlines) provided valid data for all queries; the total number of these queries varied by Web site.

TECHNICAL OR SYSTEM FAILURES

Although our testers experienced several technical or system failures in which a Web site was unable to process a request, these incidents were temporary and did not prevent the tester from completing the query. For this project, no Web sites were unable to process a request in time due to an apparent technical failure.

TESTING RESULTS, RANKINGS, AND CONCLUSIONS

The findings of Consumer Reports WebWatch's international airline Web site testing are presented in the attached figures and are described below. There are three major categories of rankings:

- 1) Lowest fares for all tests;
- 2) Closest fares for all tests;
- 3) Lowest fares for each of the five individual tests.

The results are detailed in Figures 4 through 13.

It's important to note that all rankings included ties. Therefore it was theoretically possible that every Web site tested could have provided the lowest airfare when queried.

LOWEST FARES FOR ALL TESTS

Figure 5 shows how each of the Web sites performed at providing the lowest fares. Figure 4 breaks down the results for the three integrated Web sites — Expedia, Orbitz, and Travelocity — as well as for all branded airline Web sites combined. Roughly half the results were posted by the three integrated sites collectively

(450 queries) and half by the airline sites collectively (453 queries).

Figure 4 presents individual rankings for every Web site tested, and clearly these findings are important as well. But context is critical. Because of the methodology of this testing, it would be inappropriate, for example, to rank Lufthansa (33%) with six valid queries performed ahead of Orbitz (30%) with 150 valid queries performed.

Therefore, when the branded airline sites are viewed collectively, it's clear that Orbitz was best at providing lowest fares. Orbitz accomplished this 30% of the time, followed by its rivals Expedia (23%) and Travelocity (19%). Orbitz's performance is particularly noteworthy because in many cases it charged a higher booking fee than both Expedia and Travelocity.

However, some of the branded airline sites performed well overall. Although the individual samplings for Lufthansa (6 valid queries) and Singapore (3 valid queries) were very small, they led all sites with 33% each.

FIGURE 4

LOWEST INTERNATIONAL AIRLINE FARES - INTEGRATED SITES (INCLUDING TIES)

WEB SITE	% OF LOWEST FARES PROVIDED	NUMBER OF LOWEST FARES PROVIDED	NUMBER OF VALID QUERIES PERFORMED
ORBITZ	30%	45	150
EXPEDIA	23%	35	150
TRAVELOCITY	19%	29	150
ALL AIRLINES	13%	59	453

FIGURE 5

LOWEST INTERNATIONAL AIRLINE FARES - ALL SITES (INCLUDING TIES)

WEB SITE	% OF LOWEST FARES PROVIDED	NUMBER OF LOWEST FARES PROVIDED	NUMBER OF VALID QUERIES PERFORMED
LUFTHANSA	33%	2	6
SINGAPORE	33%	1	3
ORBITZ	30%	45	150
NORTHWEST / KLM	27%	13	49
EXPEDIA	23%	35	150
TRAVELOCITY	19%	29	150
UNITED	17%	20	117
AMERICAN	16%	19	119
CONTINENTAL	6%	3	50
DELTA	1%	1	80
VIRGIN ATLANTIC	0%	0	2
AIR JAMAICA	0%	0	5
KOREAN AIR	0%	0	5
THAI AIRWAYS	0%	0	5
AIR FRANCE	0%	0	6
BRITISH AIRWAYS	0%	0	6

More important, perhaps, was the performance of Northwest/KLM, which provided the lowest fares 27% of the time with a higher sampling of 49 valid queries. Northwest/KLM, in fact, provided lowest fares more often than both Expedia and Travelocity, when it competed head-to-head with these two sites in one-third of all queries.

It's also important to note the rankings of both United and American. United provided lowest fares 17% of the time with 117 valid queries and American provided lowest fares 16% of the time with 119 valid queries. Put another way, these two branded airline sites provided lowest fares almost as often as Expedia and Travelocity, with nearly as great a test sampling.

The two remaining domestic branded airline sites—Continental (6%) and Delta (1%)—performed poorly at providing lowest fares, despite testing samples greater than Northwest/KLM's (50 queries and 80 queries, respectively).

None of the six remaining foreign branded airline sites—Virgin Atlantic, Air Jamaica, Korean Air, Thai Airways, Air France, and British Airways—provided any lowest fares, with valid queries ranging from two to six apiece.

CLOSEST FARES FOR ALL TESTS

Consumer Reports WebWatch maintains that the

inclusion of "closest" fares is critical to any evaluation of the competitive online travel market. In many cases, the difference in fares and rates provided by competing Web sites is just a few dollars for identical itineraries, and sometimes the difference can even be measured in cents. Even the most cost-sensitive consumers can make better decisions when they factor such small price differentials into their buying equations.

Closest fares are even more critical when evaluating more expensive products, such as international airline tickets, because the price differentials are considerably less when viewed as a percentage of the total cost. Therefore Consumer Reports WebWatch determined that \$10 would be a fair and appropriate amount to delineate the closest fares, for two reasons. First, \$10 was not more than 5% of the lowest fare provided for any of the 150 queries (American Airlines site, \$197, Miami—San Juan, TEST #4). Second, in most cases \$10 was the highest amount of the booking fee charged by an integrated site.

Figure 7 presents the findings when lowest and closest airfares are combined. Once again, the collective performance of the branded airline Web sites is compared to each of the three integrated Web sites in Figure 6. These results are segregated from the individual site results presented in Figure 7.

FIGURE 6

LOWEST AND CLOSEST INTERNATIONAL AIRLINE FARES - INTEGRATED SITES
(WITHIN \$10 BOOKING, INCLUDING TIES)

WEB SITE	% OF LOWEST AND CLOSEST FARES PROVIDED	NUMBER OF LOWEST AND CLOSEST FARES PROVIDED	NUMBER OF VALID QUERIES PERFORMED
ORBITZ	79%	118	150
EXPEDIA	55%	82	150
TRAVELOCITY	35%	52	150
ALL BRANDED SITES	19%	85	453

These results clearly show how easily Orbitz dominated its competitors by providing the lowest and closest fares 79% of the time. Discounting the fine performance posted by Singapore (67% for only 3 valid queries), Orbitz maintained a 24% lead over second-place Expedia at 55%, followed by Travelocity at 35%. Again, this was based on a total of 150 separate queries each for Orbitz, Expedia, and Travelocity. This was by far the largest spread between first place and second-place rankings since Consumer Reports WebWatch began evaluating closest fares and rates for travel products.

Collectively, the branded airline sites did not perform well by providing lowest and closest fares only 19% of the time. Individually, however, there were impressive performances by some of the airline sites once again.

And the inclusion of closest fares did not alter the lowest fare rankings of all five domestic airlines.

In addition to Singapore (67%, 3 valid queries) and Lufthansa (33%, 6 valid queries), Northwest/KLM led the domestic carriers by providing the lowest fare 31% of the time, for 49 valid queries. Once again, Northwest/KLM was followed by United (29%) and American (18%), with 117 valid queries and 119 valid queries, respectively. Including closest fares boosted Continental's performance to 16% but did little to help Delta's at 1%.

Among the foreign carriers, the inclusion of closest fares helped British Airways (17%), but did not assist five foreign airlines—Virgin Atlantic, Air Jamaica, Korean Air, Thai Airways, and Air France—that did not provide any closest or lowest fares.

FIGURE 7

LOWEST AND CLOSEST INTERNATIONAL AIRLINE FARES - ALL SITES
(WITHIN \$10 BOOKING, INCLUDING TIES)

BREAKDOWN OF ALL SITES	% OF LOWEST AND CLOSEST FARES PROVIDED	NUMBER OF LOWEST AND CLOSEST FARES PROVIDED	NUMBER OF VALID QUERIES PERFORMED
ORBITZ	79%	118	150
SINGAPORE	67%	2	3
EXPEDIA	55%	82	150
TRAVELOCITY	35%	52	150
LUFTHANSA	33%	2	6
NORTHWEST / KLM	31%	15	49
UNITED	29%	34	117
AMERICAN	18%	22	119
BRITISH AIRWAYS	17%	1	6
CONTINENTAL	16%	8	50
DELTA	1%	1	80
VIRGIN ATLANTIC	0%	0	2
AIR JAMAICA	0%	0	5
KOREAN AIR	0%	0	5
THAI AIRWAYS	0%	0	5
AIR FRANCE	0%	0	6

Consumer Reports WebWatch’s long-standing advice to consumers is to shop around for the lowest fares and rates. Specifically, shoppers should always check the branded Web sites of airlines (or hotel or car rental companies) if an integrated site provides an attractive fare or rate, to see if the branded site can beat that price. This advice seems particularly relevant for three of the branded airline sites tested for this project: Northwest/KLM, United, and American. These three airline Web sites matched or beat Orbitz, Expedia, and Travelocity often enough that even the most time-pressed consumers would be well served to visit these branded sites when searching for low airfares.

LOWEST FARES FOR INDIVIDUAL TESTS

As noted, this project consisted of five separate tests, each consisting of 30 separate queries for airfares, for a project total of 150 valid queries. The results posted by each of these individual tests warrant a closer examination, since there were variables in the Web sites tested, the destinations, the routes, the dates of travel, and the testing dates themselves. However, it should be stressed again that the small test samples for many of the individual airline Web sites require that these results—both good and bad—be viewed in context.

Figures 8 through 13 detail each of the results in order for TEST #1 through TEST #5.

Results for TEST #1, TEST #2, and TEST #3 (European routes)

The first three of the five separate tests focused on routes between the United States and Europe. Consumer Reports WebWatch felt it was appropriate to allot the division of routes in this manner, for two key reasons: 1) the sheer volume of passenger traffic on transatlantic routes, according to Bureau of Transportation Statistics data, and 2) the more robust competition on many of these routes, compared overall to routes between the U.S. and the Caribbean & Latin America and the U.S. and Asia.

What’s striking is that despite all the similarities in the itineraries for these three tests, the results are quite

different. With few exceptions, the routes themselves remained fairly consistent throughout all three tests, and the specifics of the itineraries remained consistent as well. Also note that for all three tests, the airfares were queried 28 days in advance, and in all three tests, the length of stay was 7 days, including a Saturday-night stay-over in all cases. Yet the rankings of both the integrated and branded airline Web sites differed considerably among all three tests.

The key difference was the date of departure. For TEST #1, this was a Thursday; for TEST #2, this was a Friday; and for TEST #3, this was a Monday. The availability of seats, let alone the availability of low fares, was a critical component of this testing, and proved to be the deciding factor on which Web sites provided the highest number and percentage of lowest fares.

As Consumer Reports WebWatch has noted before, this confirms the vital importance of the date of travel. Consumers who are flexible on their departure and return dates—even by as small a margin as one day—are always likely to find better bargains. Comparison shopping will bear this out.

Here’s a brief synopsis of the three European route tests:

**NORTHWEST / KLM
PROVIDED LOWEST
FARES MORE OFTEN
THAN EXPEDIA AND
TRAVELOCITY IN
ONE-THIRD OF ALL
QUERIES.**

■ **TEST #1**

As shown in Figure 8, American Airlines not only led seven Web sites in this test, but by providing 15 lowest fares among 30 valid queries, it posted the best performance of any Web site for all three European route tests.

FIGURE 8

**TEST #1: EUROPEAN ROUTES;
LOWEST INTERNATIONAL AIRLINE FARES
28 DAYS IN ADVANCE (INCLUDING TIES)**

WEB SITE	NUMBER OF LOWEST FARES PROVIDED	NUMBER OF VALID QUERIES PERFORMED
AMERICAN	15	30
EXPEDIA	6	30
TRAVELOCITY	4	30
CONTINENTAL	3	30
ORBITZ	2	30
UNITED	1	28
DELTA	0	30

FIGURE 9

**TEST #2: EUROPEAN ROUTES;
LOWEST INTERNATIONAL AIRLINE FARES
28 DAYS IN ADVANCE (INCLUDING TIES)**

WEB SITE	NUMBER OF LOWEST FARES PROVIDED	NUMBER OF VALID QUERIES PERFORMED
ORBITZ	10	30
TRAVELOCITY	8	30
EXPEDIA	7	30
NORTHWEST/KLM	7	30
UNITED	1	29
AMERICAN	1	30
DELTA	1	30

■ **TEST #2**

As shown in Figure 9, Orbitz led seven Web sites by providing lowest fares for 10 of 30 valid queries. Conversely, American’s performance plummeted, as the site provided just one lowest fare among 30 valid queries.

■ **TEST #3**

As shown in Figure 10, Expedia led nine Web sites by providing lowest fares for 9 of 30 valid queries. It was followed by Travelocity, which ranked third, second, and second in these three tests.

■ **TESTS #1 through #3 Combined**

At first glance of the rankings, it would appear the most interesting results were posted by both American and Orbitz, due to their fluctuations in providing lowest airfares. In two tests consisting of 30 queries each, American provided lowest fares of 15 and 1. In three tests consisting of 30 queries each, Orbitz provided lowest fares of 2, 10, and 7.

It also would appear that the most consistent results in the rankings were posted by Expedia and Travelocity. After

FIGURE 10

**TEST #3: EUROPEAN ROUTES;
LOWEST INTERNATIONAL AIRLINE FARES
28 DAYS IN ADVANCE (INCLUDING TIES)**

WEB SITE	NUMBER OF LOWEST FARES PROVIDED	NUMBER OF VALID QUERIES PERFORMED
EXPEDIA	9	30
TRAVELOCITY	8	30
ORBITZ	7	30
UNITED	7	30
NORTHWEST/KLM	3	6
LUFTHANSA	2	6
VIRGIN ATLANTIC	0	2
AIR FRANCE	0	6
BRITISH AIRWAYS	0	6

both Web sites were queried 30 times in each of these three tests, Expedia provided lowest fares 6, 7, and 9 times, while Travelocity provided lowest fares 4, 8, and 8 times.

But if all three European route tests are combined, the rankings in Figure 11 make it clear that branded airline Web sites are important sources for finding lowest airfares on routes between the U.S. and Europe. Lufthansa led all sites at 33%, but with a very small sampling of just six valid queries.

More important, two of the domestic airline Web sites—Northwest/KLM and American—provided a higher percentage of lowest fares than any of the three integrated Web sites, albeit with smaller samplings. Even so, the performance of Northwest/KLM and American in head-to-head competition shows that their rankings were no fluke. United and Continental both finished well ahead of Delta and the three remaining foreign airline sites.

The three integrated sites, meanwhile, were clustered close together, with Expedia (24%) barely leading both Travelocity (22%) and Orbitz (21%). This may be a further indication of the competition that exists on routes between the U.S. and Europe. In numerous cases, Expedia, Orbitz, and Travelocity all tied by providing the lowest and/or closest airfare in these three tests.

**■ Results for TEST #4
(Caribbean & Latin American routes)**

The most intriguing results of this test can be summed up in one word: Orbitz. The integrated site completely dominated not only its two prime competitors (Expedia and Travelocity), but five branded airline sites: Four operated by domestic carriers and one operated by a Caribbean-based carrier.

As shown in Figure 12, Orbitz provided 18 lowest fares among 30 valid queries (60%), easily leading both

FIGURE 11

TESTS #1-3 COMBINED: EUROPEAN ROUTES; LOWEST INTERNATIONAL AIRLINE FARES (INCLUDING TIES)

BREAKDOWN OF ALL SITES	% OF LOWEST AND CLOSEST FARES PROVIDED	NUMBER OF LOWEST AND CLOSEST FARES PROVIDED	NUMBER OF VALID QUERIES PERFORMED
LUFTHANSA	33%	2	6
NORTHWEST / KLM	28%	10	36
AMERICAN	27%	16	60
EXPEDIA	24%	22	90
TRAVELOCITY	22%	20	90
ORBITZ	21%	19	90
UNITED	10%	9	87
CONTINENTAL	10%	3	30
DELTA	2%	1	60
VIRGIN ATLANTIC	0%	0	2
AIR FRANCE	0%	0	6
BRITISH AIRWAYS	0%	0	6

Expedia and Travelocity. Both of these sites provided five lowest fares among 30 valid queries (17% each).

Among the five airline sites, only American provided any lowest fares: 3 among 29 valid queries (10%). Air Jamaica, Northwest/KLM, Continental, and Delta did not provide any lowest fares, among a varied number of queries each.

Even so, the poor performance posted by American is perhaps most noteworthy, since that carrier has long dominated the Caribbean & Latin American market, and operates busy gateways in both Miami and San Juan. In fact, both of these cities were included in the itineraries for TEST #4. But American’s primary distinction was that when queried for a fare between Miami and San Juan, the site provided the single lowest airfare (\$373) among all 903 queries for this project.

It should be noted that in addition to the routes employed, there was another key difference with TEST #4: This was the shortest booking window of all five tests, with itineraries planned for just 14 days in advance.

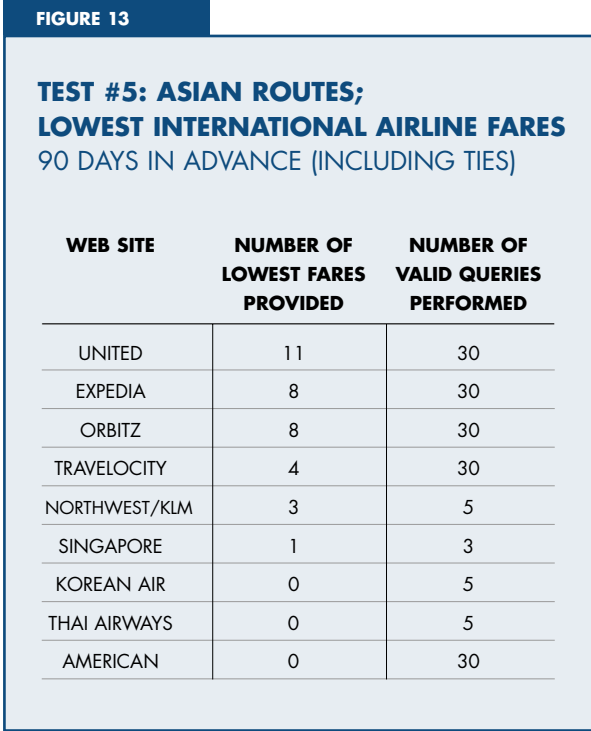
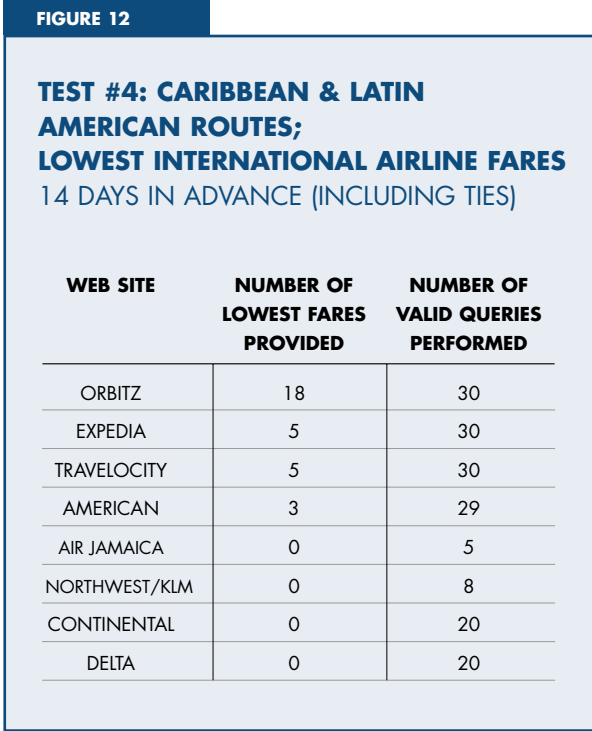
What remains unclear is whether or not a longer booking window would have led to a higher percentage of lowest fares for the any or all of these Web sites.

But whether it was due to the route structures or the time frame of the bookings, Orbitz clearly excelled. In fact, by providing lowest fares for 60% of these queries, it posted the single highest ranking for any of the Web sites among all five tests in this project.

■ **Results for TEST #5 (Asian routes)**

For all 30 itineraries in TEST #5, the longest booking window was used (90 days). This seemed consistent with the nature of such long-haul travel between the U.S. and Asia, since many such trips are planned well in advance.

TEST #5 also produced a clear winner at providing lowest airfares: United Airlines. As shown in Figure 13, United’s ability to provide 11 lowest fares among 30 valid queries resulted in a mark of 37% and led eight other Web sites. United particularly shone on routes from the U.S. to Tokyo, Seoul, and Taipei.



United was followed by the three integrated sites: Expedia and Orbitz provided lowest fares 27% of the time and Travelocity provided lowest fares 13% of the time. However, all three integrated Web sites proved to be quite competitive at providing closest fares for these Asian routes. In fact, for all 11 queries in which United provided a lowest airfare, at least one and sometimes all three of the integrated sites provided a closest airfare. The small price differential was usually due to the fee charged by the integrated Web site(s).

Northwest/KLM performed very well with a small sampling, providing three lowest fares among five valid queries (60%). Similarly, Singapore performed very well on a much smaller scale, with one lowest fare among three valid queries (33%).

Conversely, Korean Air and Thai Airways both failed to provide any lowest fares among five valid queries each. Unfortunately, American also failed to provide any lowest fares, but with a much larger sampling of 30 valid queries.

As noted elsewhere in this report, two other foreign carriers were included in TEST #5. But the results posted by both EVA Airways of Taiwan and Japan Airlines of Japan were discarded because their airfares were not labeled clearly enough to be used for accurate apples-to-apples comparisons.

FINDINGS AND CONCERNS

Unfortunately, each online travel project undertaken by Consumer Reports WebWatch has uncovered serious consumer issues, and this test of international airline fares was no exception. The most alarming problems concerned displays of incorrect fares and unavailable flights. This section chronicles these and other areas of concern.

Happily, this project uncovered good news for consumers as well, through the posting of more consumer-friendly advisories and warnings to users of the three largest integrated travel Web sites.

Detailed breakdowns of these findings follow.

INACCURATE DISPLAYS OF FLIGHT FARES AND AVAILABILITY

The most serious issues encountered during this testing were incorrect and/or misleading fare and flight availability displays on the three integrated travel Web sites—Expedia, Orbitz, and Travelocity. The problems were most chronic with Orbitz. To a lesser extent, Expedia also displayed inaccurate pricing and booking information. With Travelocity, it was a very minor issue. There were no such problems with any of the branded airline sites.

However, there were serious issues with fare calculations on the Continental Airlines site, and those problems are detailed later in this section.

The display issues that arose with the three integrated travel Web sites are detailed below.

Orbitz

The Orbitz grid is an intricate and informative display of flight and fare selections provided in both horizontal and vertical formats. (Orbitz employs similar grid models for other travel products, such as hotels and car rentals). Its grid simultaneously provides multiple airline choices in a horizontal format along with non-stop, one-stop, and two-stop flight options in a vertical format, with lowest prices clearly labeled.

In theory, the Orbitz grid should be the best shopping tool for consumers seeking to compare rival travel products. Unfortunately, Consumer Reports WebWatch found that it repeatedly offered incorrect information.

In 150 trials, the lowest fares provided by Orbitz increased in price 21% of the time. In addition, the lowest fares decreased in price 5% of the time. There were booking problems as well. The lowest fares were not

available for booking 19% of the time and the lowest fares could not be booked online an additional 5% of the time.

In many cases, these problems occurred multiple times within a single query and therefore required the tester to extensively cross-check the posted fares until the true lowest fare could be determined. For example, TEST #1 consisted of 30 trials, and produced 15 trials that resulted in the lowest fare not being available. Of these 15 trials, there were 11 trials that consisted of two or more lowest fares not being available.

For one trial, a single query for the lowest fare between Minneapolis/St. Paul and Rio de Janeiro produced 87 pages of printed screen results, when all of the incorrect fare information was included.

In the worst-case scenario with Orbitz, the price jump reflected an increase of \$1,098. In TEST #1, the lowest fare offered by Orbitz between Oakland and Brussels in the grid display was a multiple-airline itinerary priced at \$588. When this flight was selected just moments later, the "Flight Information" page included a message that the fare had increased, and now cost \$1,686.

Unfortunately, these display problems must be viewed in conjunction with Orbitz's performance in providing lowest international airfares (see page 17). In all cases, Consumer Reports WebWatch used the lowest available fares provided by Orbitz when comparing fares among all of these Web sites. But obtaining those lowest available fares from Orbitz became painstaking work at times.

Consumer Reports WebWatch contacted Orbitz and provided hard-copy documentation to support these findings. Orbitz responded: "To help travelers save money and find the right itinerary, Orbitz has the most extensive search capabilities in our industry. The powerful Orbitz search engine can show literally hundreds of options to the same destination, while global distribution systems or other online travel sites might offer only 10 to 30 fare and flight choices. Orbitz often shows combinations of fares from multiple carriers as an option that can help travelers save money. According to our internal research

on Orbitz and three competitors, Orbitz finds lower fares about 20% of the time and equivalent fares about 70% of the time on average. (Data for the past six months; compares fares only and excludes fees.)

"At the time WebWatch conducted its research in late 2003 or early 2004, pricing display issues may have been caused by software that governs the types of fares that can be combined. We regret any inconvenience customers may have experienced. This particular software issue has been corrected, and we are working hard on additional improvements. Factors that can cause a search price to be higher or lower than the booking price include airline fare updates, tax interpretation issues and technical issues, such as the way an airline has coded a fare rule.

"Orbitz uses a real-time bookability tool that allows us, on a minute-by-minute basis, to monitor search engine performance and address issues as they arise. In addition, enhancements to our search engine to be implemented in the next few weeks will further improve coordination of information between the airlines and our search engine, enhance the user experience and provide faster search responses. Orbitz is committed to providing a great customer experience, and to continued improvement of our award-winning search engine, which receives frequent commendations from travelers who find it a superior tool to easily navigate numerous, complex travel options to find the right trip at the right price."

**IN THE WORST-CASE
SCENARIO WITH
ORBITZ, THE PRICE
JUMP REFLECTED AN
INCREASE OF \$1,098.**

Expedia

With Expedia, the lowest fares displayed increased in price 5% of the time and decreased in price 2% of the time. The lowest fares were not available for booking 2% of the time. These percentages were not nearly as high as those posted by Orbitz, but they still raise valid concerns since 1 out of every 20 bookings produced a fare that rose in price.

Consumer Reports WebWatch contacted Expedia and provided hard-copy documentation to support these findings. Expedia responded to the issue of rate changes with the following: “The prices Expedia quotes are based on availability of seats at the time of the customer’s initial search. Seat inventory and availability can change in a matter of seconds as demand for particular flights increases or decreases between the time of the initial search and when the flight is selected for purchase, the available seat at that particular fare could have been taken out of inventory or sold by any other travel agency, anywhere. Expedia works hard to ensure the prices we display are as accurate as possible given the real-time nature of the booking system.”

As for the issue of rate availability, Expedia responded: “Expedia has invested in creating world-class query software so that each consumer search provides real-time inventory availability. What happens as you go through the selection process on line is the same as what happens if you are sitting in front of a travel agent or on the phone with an airline—the inventory and pricing continue to change in real time and seats that were available when the search was done may be gone by the time you click to purchase.”

Travelocity

With Travelocity, the lowest fares displayed increased in price 1% of the time and decreased in price 1% of the time. The lowest fares were not available for booking 1% of the time. Obviously these percentages were much lower than those posted by both Orbitz and Expedia.

A less serious yet chronic problem uncovered with Travelocity was the unreliability of what would otherwise

be a very helpful feature. The “Total Travel Time” provided for each multi-leg flight itinerary consistently did not match the Total Travel Time provided for many itineraries with Travelocity’s “Add A Hotel” page (which pops up unsolicited for certain flights). For the user, it was unclear which Total Travel Time was correct.

Consumer Reports WebWatch contacted Travelocity and provided hard-copy documentation to support these findings about the fare displays. Travelocity responded: “Travelocity is committed to providing fast, fair, and accurate information on fares and rates and we rely on the world’s leading airfare reservation system—Sabre Travel Network—to search literally billions of fare options in seconds. In the last nine months since the research on these fares was completed we have successfully launched new technology that more than doubles the number of times we offered the lowest fare in comparison to our competitors. In addition we have put in place new technology that significantly reduces what was already a very infrequent occurrence of errors in fare searches to one that is even more rare. The technical logistics of searching billions of fares instantly inevitably carries with it a very small margin of error, and to counter that Travelocity includes in any error finding an explanation for the fare change, and quickly offers corrected information. We find that our customers do not cite this as a major point of concern, but we will nonetheless continue to develop new solutions that bring creative, low-cost options to travelers looking for their next trip.”

TAX AND FEE INFORMATION

Throughout each of its travel Web site testing projects, Consumer Reports WebWatch has noted chronic problems with online displays of tax and fee information. For consumers comparison shopping for airfares, of course, the inclusion of such information is a necessity and these added charges can be quite significant for higher cost purchases such as international airline tickets. Overall, most sites have implemented welcome improvements in these displays. However, this project did uncover two serious issues.

■ As noted previously, Consumer Reports WebWatch discarded all results from two foreign airline Web sites, EVA Airways and Japan Airlines, because their pricing displays made viable and accurate fare comparisons impossible. These sites did not clearly label all taxes and fees, so apples-to-apples comparisons with other Web sites were not possible.

■ A more disturbing issue arose with the Continental Airlines Web site. The total fare mechanism repeatedly malfunctioned, so that incorrect (lower) fares were provided time and again. Specifically, the total lowest fare provided on the “Flight Search Results” page was less than the total lowest fare later tallied on the “Ticket Details” page. This occurred even though both fares were said to include all taxes.

These errors occurred with 18 of the 42 lowest fares provided by the Continental site, for a total of 43% of all valid trials. More importantly, the price differentials encompassed a huge range, from 1¢ to \$437.00. On average, the price differential was \$24.91.

Simply put, in nearly half of all cases, users could not

IN NEARLY HALF OF ALL CASES (43%), USERS COULD NOT TRUST THAT THE LOWEST FARE PROVIDED BY THE CONTINENTAL AIRLINES' SITE WAS THE ACTUAL AVAILABLE FARE.

trust that the lowest fare provided was the actual available fare.

Consumer Reports WebWatch contacted Continental Airlines and provided hard-copy documentation to support these findings. Continental Airlines responded: “The problem was tracked down to what was essentially a glitch in our online pricing system that was limited to a relative handful of international itineraries. The issue was corrected on Dec. 17, 2003, and has not occurred since. During that time, customers who alerted us online that they had been assessed two different prices for exactly the same itinerary were ticketed at the lower price.”

ROUNDING DOWN OF FARES

Both Orbitz and Travelocity always presented integrated displays of fares with the dollar amounts rounded down, even when the cent value ranged from 50¢ to 99¢. None of the other Web sites engaged in this practice, which Consumer Reports WebWatch recognizes as fairly inconsequential to many users yet nonetheless would seem to be easily corrected.

When tabulating the fares provided by Orbitz and Travelocity, Consumer Reports WebWatch corrected the amounts in accordance with Internal Revenue Service policy (e.g., if the actual fare was \$99.99, and Orbitz or Travelocity displayed the fare as \$99.00, Consumer Reports WebWatch tabulated the fare as \$100.00).

OTHER ISSUES

Functionality and ease-of-use criteria varied from site to site. Overall, some of the branded airline Web sites repeatedly presented glitches when searching for fares. The three integrated sites performed the search functions without any serious problems.

What follows are specific comments provided by the Consumer Reports WebWatch testers themselves

about these sites. They detail good, bad, and interesting features.

- The Thai Airways, Lufthansa, and Air France sites repeatedly required the tester to re-insert the query information. The Thai site was quite unintuitive as well. In addition, the Lufthansa site did not process such simple commands as the “MSP” three-letter airport code for Minneapolis/St. Paul.

- In two cases, the Northwest/KLM site did not list the lowest fares first, although it was not clear what criteria were used to determine the order of the listings. Meanwhile, the United Airlines site did not adhere to the time-of-day function used when providing listings by lowest fare.

- The Singapore Airlines site included a nice feature that for certain airfare queries defaulted to a “special” lower fare.

- Interestingly, the Japan Airlines site was clearly labeled as a product of Travelocity, not the airline itself. Therefore, the lowest fares provided were from a variety of carriers, and JAL’s lowest price was often buried beneath other airlines. For example, a query for a flight between San Francisco and Tokyo listed the lowest airfare by All Nippon Airways, JAL’s arch-rival.

- Although neither Expedia nor Travelocity employed a complete grid display as Orbitz did, both sites offered mini-matrices at the top which summarized the vertical listings below. At the time of testing, Expedia dubbed this feature “Quick Compare.” In both cases, these grids proved to be very helpful features.

- For one trial with Expedia (TEST #5, Los Angeles—Seoul), the tester attempted to print the available fares but instead received blank pages headlined by Kodak advertisements; a second attempt produced the correct pages. For another trial with Expedia (TEST #1, Chicago—London), the request for available fares produced a full-page advertisement for Virgin Atlantic Airways (even though Expedia’s lowest fare for this query was provided by SAS, not Virgin Atlantic).

NOTIFICATIONS TO USERS

Consumer Reports WebWatch was pleased to find that all three integrated travel Web sites — Expedia, Orbitz, and Travelocity — provided clear notifications to users when fares suddenly increased or decreased during the booking process, or when flights suddenly became unavailable during the booking process.

In previous reports, Consumer Reports WebWatch criticized travel Web sites for not providing such warnings to consumers. Our concern was that many users might not recognize sudden price or itinerary changes when they occur mid-way through the booking process.

Consumer Reports WebWatch certainly encourages all Internet travel providers to display only the most accurate and truthful data in their online displays. It’s also indisputable that travel pricing and availability information changes constantly, within fractions of seconds. However, consumers have a right to be warned of such changes in the manner now being used by all three of the largest integrated travel Web sites.

All three sites employed similar notifications. What follows are samples of these warnings.

- **A sample warning from Expedia stated:** “YOUR PRICE HAS CHANGED. We’re sorry, the price of this flight has changed from \$504.30 to \$520.30.”

A more detailed warning from Expedia stated: “THE PRICE HAS CHANGED. Expedia works hard to ensure the prices we display are as accurate as possible. The prices we quote are based on availability of seats at the time of your initial search. Seat inventory and availability can change in a matter of seconds as demand for particular flights increases or decreases. For this reason, we obtain the latest prices after your initial flight search and then verify the price again when you select a specific flight to purchase and when payment is requested. Using the back button to obtain the initial flight search results may not reflect current price and availability. If the new price for your selected flights is satisfactory, use the first link

below to **Accept price and continue**. Otherwise, we recommend that you **Pick a different flight**.”

Another Expedia warning stated: “YOUR REQUEST CANNOT BE COMPLETED. One or more of the flights you have selected is not available. Please select alternate flights and then try again.”

■ **A sample warning from Orbitz stated:** “The airline has increased this fare since you made your selection. The total airfare is shown below. (Message 102a)”

Another warning from Orbitz stated: “! Because flight availability can change rapidly based on traveler demand, the flight you selected is no longer available. Please make another selection. (Message 100)”

In certain cases, the Orbitz warning stated: “! Sorry, we cannot issue a ticket for this itinerary because these airlines do not have reciprocal ticketing agreements. Please select another flight option, or purchase each leg of the trip separately. (Message 176)”

This message was particularly welcome since in other cases Orbitz simply stated that the user should contact the airline to buy the tickets, but since these itineraries included multiple airlines, it begged the question: Contact which airline?

■ **A sample warning from Travelocity stated:** “! We’re sorry, the price for this trip has changed. The new lowest available price is below.”

Another warning from Travelocity stated: “UNABLE TO CONFIRM YOUR SELECTION. One or more of your flights cannot be confirmed with the participating airline. Due to heavy volume some low fares sell out very quickly, and one or more of your flights is no longer available at the fare you selected.”

TIPS FOR BOOKING INTERNATIONAL AIRFARES ONLINE

Unfortunately, there are risks inherent in shopping for airline seats on the Internet. And due to the higher cost and more complicated itineraries of international airfares, the risks are greater as well. Consumer Reports WebWatch recommends that consumers ALWAYS adhere to the following guidelines.

- ALWAYS comparison shop! This is especially true for international airline itineraries, since Consumer Reports WebWatch testing revealed a very high level of competition and many fares just slightly higher than the lowest available fare.
- When it comes time to pay for your flight, ALWAYS double-check to make sure the price has not changed during your online transaction. As this project made clear, many online airfares are either not available at the posted price or are not available for booking at all, sometimes with no explanation.
- If you're using an "integrated" travel Web site that provides fares from a variety of competing airlines (such as the Expedia, Orbitz, or Travelocity sites tested for this project), ALWAYS take the extra time to check the

"branded" airline Web site to see if the lowest integrated fare can be beat by that carrier's own Web site. Further, airline Web sites usually do not charge ticketing fees, which can range from \$5 to \$10 per transaction.

- That said, ALWAYS be careful when comparison shopping from travel Web site to travel Web site. Each site's default function may not store and "remember" the information you input as you shop, so the data you entered may be lost and the search engine may revert to incorrect dates or airports.
- ALWAYS try to be flexible, particularly when traveling internationally. As this project made clear, considerably lower fares may be available if you can change your travel dates or times or use alternative airports.
- ALWAYS make sure the price of your international airline ticket includes all applicable taxes, fees, and surcharges levied by the airlines, governmental authorities, airports, or other official entities. In some cases, these add-on costs may not be clearly labeled.

- Additionally, if you book through one of the integrated Web sites, ALWAYS make sure you've closely compared their service fees, since they can vary from site to site for identical bookings.

- ALWAYS ensure you understand any travel Web site's rebooking and cancellation policies. And if you're using an integrated travel Web site, be aware there may be two sets of guidelines: one imposed by the airline itself and one imposed by the Web site.

- ALWAYS find out if you're eligible for certain discounts. These apply to a variety of travelers, including government employees, military personnel, students, seniors, children, and members of certain organizations such as the American Automobile Association (AAA) or the American Association of Retired Persons (AARP).

- ALWAYS make sure that you input all your travel information accurately. That means double-checking dates and times; confirming the correct flight class; and selecting the correct city and/or airport. Understand that you could be fully responsible for travel purchases if you booked incorrectly.

- ALWAYS use a charge card for online travel purchases. Charge cards generally provide the most federal consumer protections in the United States. Under the Fair Credit Billing Act, your liability for unauthorized charges is limited to \$50—if you report the billing error to the charge card company in writing within 60 days after the bill was mailed to you. Charge card companies and e-merchants may cover this fee in certain situations. Some charge card companies also will let you use a temporary "throw-away" charge card number when making purchases online, so that payments are credited to your actual charge card but without your needing to share electronically your real account number or password. Inquire with your charge card company about this option. You may also want to consider setting aside a single charge card for online use. That way, if a security breach occurs, you will still be able to use your other charge cards.

APPENDIX I: DOT CONSUMER COMPLAINTS

For several years, the U.S. Department of Transportation's Office of Aviation Enforcement and Proceedings has published a monthly report on airline performance entitled the Air Travel Consumer Report. The report ranks U.S. major airlines in several areas, including flights delays and mishandled baggage. The report also provides detailed data on complaints filed by consumers with the DOT against airlines in recent years, these rankings have grown to include smaller U.S. airlines, foreign airlines, travel agencies, and tour operators.

These complaints are compiled from consumers who contact the DOT by telephone, mail, and e-mail. In some cases the samplings may not appear to be large enough to warrant validity, but the DOT's airline performance rankings have proven to be quite reliable over the years, and often reflect accurate percentages of those travelers who do and do not file complaints.

In early 2003, the DOT published results for 2002 that detailed complaints against specific travel Web sites under the broad category of "Travel Agents." These rankings are detailed in Figure 14.

Earlier this year, these rankings were updated for 2003. They are detailed in Figure 15.

For both Figure 14 and Figure 15 Consumer Reports WebWatch transcribed the data exactly as they

**IN 2002, PRICELINE
GENERATED 46 TOTAL
COMPLAINTS TO LEAD
FIVE OTHER SITES. ONE
YEAR LATER, EXPEDIA'S
38 COMPLAINTS LED
THE ONLINE FIELD.**

appeared on the DOT's Web site, but reordered the sites by number of complaints rather than alphabetically.

A closer look at these rankings can be instructive. The category of "Other Travel Agents" may or may not include other travel Web sites, as well as traditional "brick-and-mortar" travel agencies. As shown in Figure 14 the leading travel Web sites are listed by name.

For 2002, Priceline led five other travel Web sites, and by a considerable margin. Priceline, an "opaque" Web site that at the time required all users to bid for their travel purchases, generated a total of 46 complaints. Priceline was closely followed in order by Travelocity, Expedia, Cheap Tickets, Orbitz, and Hotwire. Among the many categories provided, it's

clear that most of the complaints against travel Web sites in 2002 were filed in two key areas: "Reservations/Ticketing/Boarding" and "Refunds." Priceline also led the other five sites with five complaints for "Fares."

As Figure 15 shows, there were some significant changes in these rankings in 2003. Expedia overtook Priceline, 38 complaints to 30 complaints. They were followed in order by Orbitz, Cheap Tickets, and Travelocity, which cut its total complaint total by more than half, from 45 in 2002 to 20 in 2003. Last year, Hotwire was not ranked separately.

Once again, however, the two key categories of complaints against travel Web sites in 2003 were "Reservations/Ticketing/Boarding" and "Refunds." It's also interesting to note that the leader among all travel

FIGURE 14

DOT CONSUMER COMPLAINTS (JAN-DEC 2002)

	FLIGHT PROBLEMS	OVERSALES	RES/TICKETING/BOARDING	FARES	REFUNDS	BAGGAGE	CUSTOMER SERVICE	DISABILITY	ADVERTISING	DISCRIMINATION	ANIMALS	OTHER	TOTAL
OTHER TRAVEL AGENTS	2	0	16	7	64	0	7	0	8	1	0	7	112
PRICELINE	1	1	13	5	23	0	2	0	1	0	0	0	46
TRAVELOCITY	3	0	16	1	18	0	4	0	2	0	0	1	45
EXPEDIA	1	0	10	2	24	0	3	0	0	0	0	0	40
CHEAP TICKETS	3	0	16	1	13	0	1	0	0	0	0	0	34
ORBITZ	0	0	11	4	9	1	1	0	2	0	0	0	28
HOTWIRE	0	0	4	1	5	0	1	0	1	0	0	0	12
TOTAL	10	1	86	21	156	1	19	0	14	1	0	8	317

Web sites in generating complaints for "Fares" in 2003 was Orbitz.

To access the Air Travel Consumer Reports Travel Letter for 2004, visit:

<http://airconsumer.ost.dot.gov/reports/atcr04.htm>.

FIGURE 15

DOT CONSUMER COMPLAINTS (JAN-DEC 2003)

	FLIGHT PROBLEMS	OVERSALES	RES/TICKETING/BOARDING	FARES	REFUNDS	BAGGAGE	CUSTOMER SERVICE	DISABILITY	ADVERTISING	DISCRIMINATION	ANIMALS	OTHER	TOTAL
OTHER TRAVEL AGENTS	4	0	38	10	57	0	3	0	5	0	0	0	117
EXPEDIA	1	0	16	4	16	0	1	0	0	0	0	0	38
PRICELINE	1	0	10	4	14	0	1	0	0	0	0	0	30
ORBITZ	1	0	10	7	8	0	0	0	2	0	0	0	28
CHEAP TICKETS	0	0	7	2	9	0	1	0	1	0	0	0	20
TRAVELOCITY	1	0	8	0	10	0	0	0	1	0	0	0	20
TOTAL	8	0	89	27	114	0	6	0	9	0	0	0	253