Wingo Inn Guest Directory
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Wingo Inn "The Best in Southern Hospitality."

FREE GOLF CLUB RENTAL

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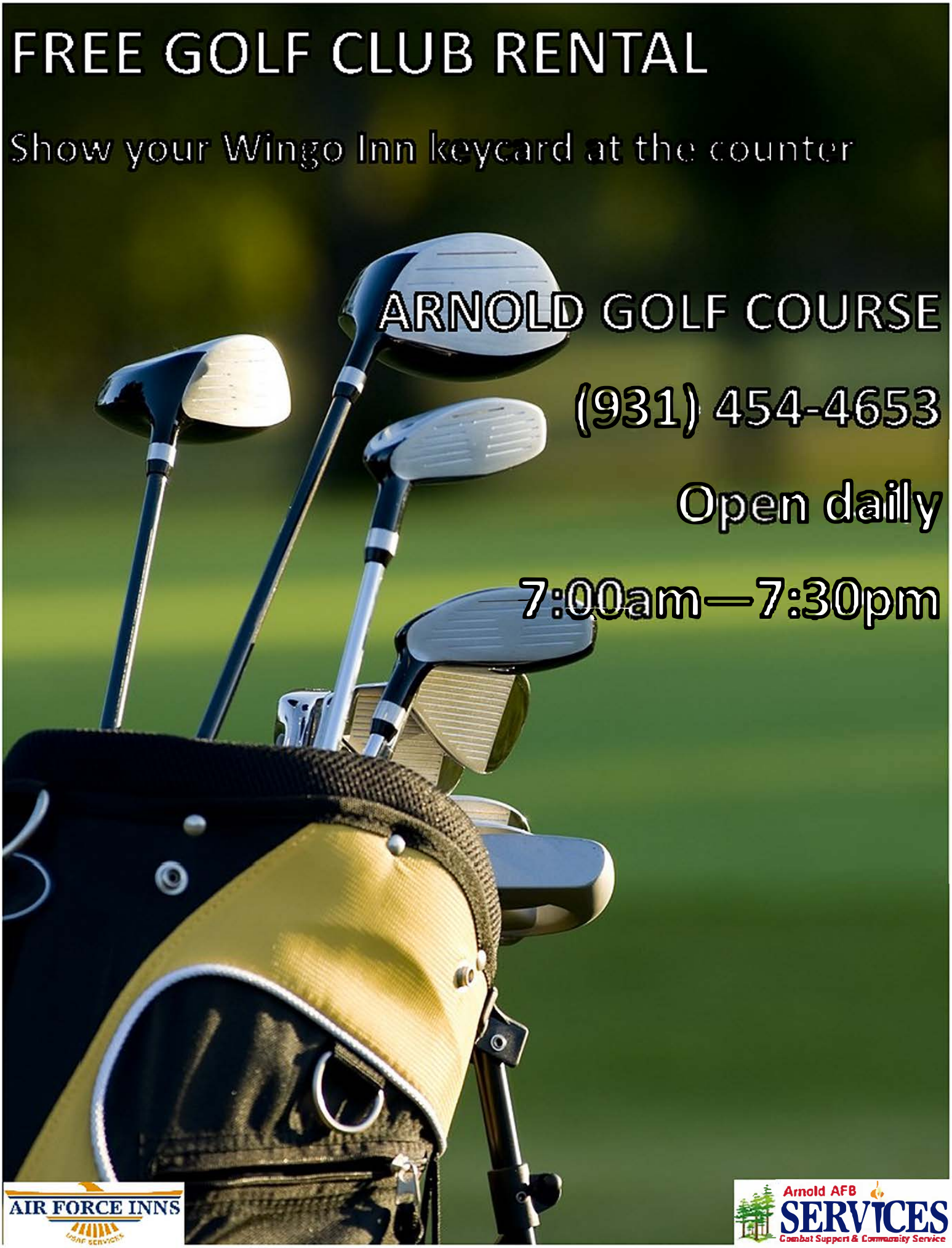

ARNOLD GOLF COURSE

(931) 454-4653

Open daily

7:00am—7:30pm

AIR FORCE INNS

USAF SERVICES

Arnold AFB SERVICES

Combat Support & Community Service

Arnold AFB
SERVICES
Combat Support & Community Service

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AIR FORCE INNS
USAF SERVICES

DIRECTV General Market Channel Lineups WINTER 2016

SELECT™ PACKAGE

Over 145 channels, including local channels (in SD and HD) available in over 99% of U.S. households[1]: ABC | CBS | FOX | NBC | PBS | CW & MyTV (available in select markets).

A&E HD 265
AMC HD 254
America's Auction Network 324
Animal Planet HD 282
Aqui[2] 401
Arirang TV[2] 2095
AUDIENCE® HD 239
AXS TV (HD only)[2] HD 340
BabyFirst TV[2] 293
BBC America HD 264
BET HD 329
Bloomberg TV HD 353
Bravo HD 237
BYUtv 374
CANAL ONCE[2] 447
Cartoon Network (East) HD 296
Cartoon Network (West) 297
CCTV News[2] 2119
Celebrity Shopping Network 95/223
Church Channel 371
CMT HD 327
CNBC HD 355
CNN HD 202
Comedy Central HD 249
C-SPAN 350
C-SPAN2 351
CTN 376
Daystar 369
DIRECTV CINEMA Screening Room 125
Discovery HD 278
Disney Channel (East) HD 290
Disney Channel (West) 291
Disney Junior HD 289
Disney XD HD 292
E! HD 236
Enlace[2] 448
EVINE 73/316
EWTN 370
Food Network HD 231
FOX News Channel HD 360
Free Speech TV[2] 348
Freeform HD 311
FX HD 248
Galavisión HD 404
GEB America[2] 363
GEM Shopping Network 228
GOD TV[2] 365
Hallmark Channel HD 312
Hallmark Movies & Mysteries (HD only)[2] HD 565
HGTV HD 229
HISTORY HD 269
HITN TV[3] 461
HLN HD 204
Hope Channel[2] 368
HSN 240
IMPACT[2] 380
INSP 364
Investigation Discovery HD 285
Jewelry Television 72/313
Jewish Life Television[2] 366
Lifetime HD 252
Link TV 375
Liquidation Channel 226
MAVTV 214
MSNBC HD 356
MTV HD 331
MTV2 HD 333
NASA TV[2] 352
National Geographic Channel HD 276
Nick Jr. HD 301
Nickelodeon/Nick at Nite (East) HD 299
Nickelodeon/Nick at Nite (West) 300
NRB 378
Ovation HD 274
pivot 267
Pursuit Channel 604
QVC HD 275/317
QVC Plus 315
ReelzChannel HD 238
RFD-TV 345
Son Life Broadcasting Network 344
Spike HD 241
Syfy HD 244
TBS HD 247
TCM HD 256
TCT Network 377
TeenNick 303
TLC HD 280
TNT HD 245
Trinity Broadcasting Network (TBN) 372
truTV HD 246
TV Land HD 304
Univision (East) HD 402
Uplift[2] 379
USA Network HD 242
Velocity (HD only)[2] HD 281
VH1 HD 335
Vme[2] 440
WE tv HD 260
WeatherNation HD 361
The Word Network 373
World Harvest Television (WHT) 367
SonicTap Music Channels[3] – 58

ENTERTAINMENT PACKAGE

Over 150 channels, including local channels (in SD and HD) available in over 99% of U.S. households[1]: ABC | CBS | FOX | NBC | PBS | CW & MyTV (available in select markets). Includes most channels in SELECT, plus the channels shown in BOLD.

A&E HD 265
AMC HD 254
America's Auction Network 324
Animal Planet HD 282
Aqui[2] 401
Arirang TV[2] 2095
AUDIENCE® HD 239
AXS TV (HD only)[2] HD 340
BabyFirst TV[2] 293
BBC America HD 264
BET HD 329
Bloomberg TV HD 353
Bravo HD 237
BYUtv 374
CANAL ONCE[2] 447
Cartoon Network (East) HD 296
Cartoon Network (West) 297
CCTV News[2] 2119
Celebrity Shopping Network 95/223
Church Channel 371
CMT HD 327
CNBC HD 355
CNN HD 202
Comedy Central HD 249
C-SPAN 350
C-SPAN2 351
CTN 376
Daystar 369
DIRECTV CINEMA Screening Room 125
Discovery HD 278
Disney Channel (East) HD 290
Disney Channel (West) 291
Disney Junior HD 289
Disney XD HD 292
E! HD 236
Enlace[2] 448
ESPN HD 206
ESPN2 HD 209
EVINE 73/316
EWTN 370
Food Network HD 231
FOX News Channel HD 360
FOX Sports 1 HD 219
Free Speech TV[2] 348
Freeform HD 311
FX HD 248
Galavisión HD 404
GEB America[2] 363
GEM Shopping Network 228
GOD TV[2] 365
Hallmark Channel HD 312
Hallmark Movies & Mysteries (HD only)[2] HD 565
HGTV HD 229
HISTORY HD 269
HITN TV[3] 461
HLN HD 204
Hope Channel[2] 368
HSN 240
IMPACT[2] 380
INSP 364
Investigation Discovery HD 285
Jewelry Television 72/313
Jewish Life Television[2] 366
Lifetime HD 252
Link TV 375
Liquidation Channel 226
MAVTV 214
MSNBC HD 356
MTV HD 331
MTV2 HD 333
NASA TV[2] 352
National Geographic Channel HD 276
Nick Jr. HD 301
Nickelodeon/Nick at Nite (East) HD 299
Nickelodeon/Nick at Nite (West) 300
NRB 378
Ovation HD 274
pivot 267
Pursuit Channel 604
QVC HD 275/317
QVC Plus 315
ReelzChannel HD 238
RFD-TV 345
Son Life Broadcasting Network 344
Spike HD 241
Syfy HD 244
TBS HD 247
TCM HD 256
TCT Network 377
TeenNick 303
TLC HD 280
TNT HD 245
Trinity Broadcasting Network (TBN) 372
truTV HD 246
TV Land HD 304
Univision (East) HD 402
Uplift[2] 379
USA Network HD 242
Velocity (HD only)[2] HD 281
VH1 HD 335
Vme[2] 440
WE tv HD 260
WeatherNation HD 361
The Word Network 373
World Harvest Television (WHT) 367
SonicTap Music Channels[3] – 58

CHOICE™ PACKAGE

Over 175 channels, including local channels (in SD and HD) available in over 99% of U.S. households[1]: ABC | CBS | FOX | NBC | PBS | CW & MyTV (available in select markets). Includes most channels in ENTERTAINMENT, plus the channels shown in BOLD.

A&E HD 265
Al Jazeera America HD 347
AMC HD 254
America's Auction Network 324
Animal Planet HD 282
Aqui[2] 401
Arirang TV[2] 2095
AUDIENCE® HD 239
AXS TV (HD only)[2] HD 340
BabyFirst TV[2] 293
BBC America HD 264
BET HD 329
Bloomberg TV HD 353
Bravo HD 237
BTN HD 610
BYUtv 374
CANAL ONCE[2] 447
Cartoon Network (East) HD 296
Cartoon Network (West) 297
CCTV News[2] 2119
Celebrity Shopping Network 95/223
Church Channel 371
CMT HD 327
CNBC HD 355
CNBC World 357
CNN HD 202
Comedy Central HD 249
Comedy TV (HD only)[2] HD 382
Cooking Channel HD 232
C-SPAN 350
C-SPAN2 351
CTN 376
Daystar 369
DIRECTV CINEMA Screening Room 125
DIRECTV HD SPORTSMIX® HD 205/600
Discovery HD 278
Disney Channel (East) HD 290
Disney Channel (West) 291
Disney Junior HD 289
Disney XD HD 292
E! HD 236
Enlace[2] 448
ESPN HD 206
ESPN2 HD 209
ESPNEWS HD 207
ESPNU HD 208
EVINE 73/316
EWTN 370
Food Network HD 231
FOX Business Network HD 359
FOX News Channel HD 360
FOX Sports 1 HD 219
Free Speech TV[2] 348
Freeform HD 311
Fuse HD 339
Fusion (HD only)[2] HD 342
FX HD 248
Galavisión HD 404
GEB America[2] 363
GEM Shopping Network 228
GOD TV[2] 365
GSN 233
Hallmark Channel HD 312
HGTV HD 229
HISTORY HD 269
HITN TV[3] 461
HLN HD 204
Hope Channel[2] 368
HSN 240
IFC HD 564
IMPACT[2] 380
INSP 364
Investigation Discovery HD 285
ION Television (East) HD 305
ION Television (West) 306
Jewelry Television 72/313
Jewish Life Television[2] 366
Justice Central (HD only)[2] HD 383
Lifetime HD 252
Link TV 375
Liquidation Channel 226
LMN HD 253
MAVTV 214
MLB Network HD 213
MSNBC HD 356
MTV HD 331
MTV2 HD 333
NASA TV[2] 352
National Geographic Channel HD 276
NBC Sports Network HD 220
NFL Network HD 212
Nick Jr. HD 301
Nickelodeon/Nick at Nite (East) HD 299
Nickelodeon/Nick at Nite (West) 300
Nicktoons 302
NRB 378
OWN (Oprah Winfrey Network) HD 279
POP 273
Pursuit Channel 604
QVC HD 275/317
QVC Plus 315
ReelzChannel HD 238
RFD-TV 345
Science HD 284
SEC Network HD 611
Son Life Broadcasting Network 344
Spike HD 241
Syfy HD 244
TBS HD 247
TCM HD 256
TCT Network 377
TeenNick 303
TLC HD 280
TNT HD 245
Travel Channel HD 277
Trinity Broadcasting Network (TBN) 372
truTV HD 246
TV Land HD 304
TV One 328
UniMás HD 408
Univision (East) HD 402
UP 338
Uplift[2] 379
USA Network HD 242
Velocity (HD only)[2] HD 281
VH1 HD 335
Vme[2] 440
WE tv HD 260
The Weather Channel HD 362
WeatherNation HD 361
WGN America HD 307
The Word Network 373
World Harvest Television (WHT) 367
SonicTap Music Channels[3] – 60

XTRA PACKAGE

Over 220 channels, including local channels (in SD and HD) available in over 99% of U.S. households:[1] ABC | CBS | FOX | NBC | PBS | CW & MyTV (available in select markets). Includes all channels in CHOICE, plus the channels shown in BOLD.

A&E HD 265
Al Jazeera America HD 347
AMC HD 254
American Heroes Channel 287
America's Auction Network 324
Animal Planet HD 282
Aqui[2] 401
Arirang TV[2] 2095
ASPiRE HD 381
AUDIENCE® HD 239
AXS TV (HD only)[2] HD 340
BabyFirst TV[2] 293
BBC America HD 264
BBC World News (HD only)[2] HD 346
BET HD 329
Bloomberg TV HD 353
Bravo HD 237
BTN HD 610
BYUtv 374
CANAL ONCE[2] 447
Cartoon Network (East) HD 296
Cartoon Network (West) 297
CBS Sports Network HD 221
CCTV News[2] 2119
Centric 330
Celebrity Shopping Network 95/223
Church Channel 371
CMT HD 327
CNBC HD 355
CNBC World 357
CNN HD 202
Comedy Central HD 249
Comedy TV (HD only)[2] HD 382
Cooking Channel HD 232
C-SPAN 350
C-SPAN2 351
CTN 376
Daystar 369
Destination America HD 286
DIRECTV CINEMA Screening Room 125
DIRECTV HD SPORTSMIX® HD 205/600
Discovery HD 278
Discovery Family Channel 294
Discovery Life 261
Disney Channel (East) HD 290
Disney Channel (West) 291
Disney Junior HD 289
Disney XD HD 292
DIY Network HD 230
E! HD 236
Enlace[2] 448
ESPN HD 206
ESPN2 HD 209
ESPNEWS HD 207
ESPNU HD 208
EVINE 73/316
EWTN 370
Food Network HD 231
FOX Business Network HD 359
FOX News Channel HD 360
FOX Sports 1 HD 219
FOX Sports 2 HD 618
Free Speech TV[2] 348
Freeform HD 311
fyi, HD 266
Galavisión HD 404
GEB America[2] 363
GEM Shopping Network 228
GOD TV[2] 365
Golf Channel HD 218
Great American Country (GAC) 326
GSN 233
Hallmark Channel HD 312
Hallmark Movies & Mysteries (HD only)[2] HD 565
HGTV HD 229
HISTORY HD 269
HITN TV[3] 461
HLN HD 204
Hope Channel[2] 368
HSN 240
IFC HD 564
IMPACT[2] 380
INSP 364
Investigation Discovery HD 285
ION Television (East) HD 305
ION Television (West) 306
Jewelry Television 72/313
Jewish Life Television[2] 366
Justice Central (HD only)[2] HD 383
Lifetime HD 252
Link TV 375
Liquidation Channel 226
LMN HD 253
Logo 272
MAVTV 214
MLB Network HD 213
MSNBC HD 356
MTV HD 331
MTV2 HD 333
NASA TV[2] 352
Nat Geo WILD HD 283
National Geographic Channel HD 276
NBA TV HD 216
NBC Sports Network HD 220
NBC Universo[2] HD 410
NFL Network HD 212
NHL Network HD 215
Nick Jr. HD 301
Nickelodeon/Nick at Nite (East) HD 299
Nickelodeon/Nick at Nite (West) 300
Nicktoons 302
NRB 378
Ovation HD 274
OWN (Oprah Winfrey Network) HD 279
Oxygen 251
pivot 267
POP 273
Pursuit Channel 604
QVC HD 275/317
QVC Plus 315
ReelzChannel HD 238
Revolt (HD only)[2] HD 384
RFD-TV 345
Science HD 284
SEC Network HD 611
Son Life Broadcasting Network 344
Spike HD 241
Sportsman Channel 605
Sprout 295
SundanceTV HD 557
Syfy HD 244
TBS HD 247
TCM HD 256
TCT Network 377
TeenNick 303
Tennis Channel HD 217
TLC HD 280
TNT HD 245
Travel Channel HD 277
Trinity Broadcasting Network (TBN) 372
truTV HD 246
TV Land HD 304
TV One 328
TVG 602
UniMás HD 408
Univision (East) HD 402
UP 338
Uplift[2] 379
USA Network HD 242
Velocity (HD only)[2] HD 281
VH1 HD 335
VH1 Classic 337
Viceland HD 271
Vme[2] 440
WE tv HD 260
The Weather Channel HD 362
WeatherNation HD 361
WGN America HD 307
The Word Network 373
World Harvest Television (WHT) 367
SonicTap Music Channels[3] – 77

Channel lineups effective as of 1/28/16. Programming, pricing and offers are subject to change and may vary. In certain markets, a Regional Sports fee of up to $6.39/mo. will be assessed with CHOICE Package and above. See additional disclaimers on next page.

DIRECTV General Market Channel Lineups WINTER 2016

ULTIMATE PACKAGE

Over 240 top channels, including local channels (in SD and HD) available in over 99% of U.S. households:[1] ABC | CBS | FOX | NBC | PBS | CW & MyTV (available in select markets). Includes all channels in XTRA, plus the channels shown in BOLD.

A&E	HD	265
Al Jazeera America	HD	347
AMC	HD	254
American Heroes Channel		287
America's Auction Network		324
Animal Planet	HD	282
Aqui[3]		401
Arirang TV[6]		2095
ASPiRE	HD	381
AUDIENCE®	HD	101
AXS TV (HD only)[2]	HD	340
BabyFirst TV[6]		293
BBC America	HD	264
BBC World News (HD only)[2]	HD	346
BET	HD	329
Bloomberg TV	HD	353
Boomerang		298
Bravo	HD	237
BTN	HD	610
BYUtv		374
CANAL ONCE[3]		447
Cartoon Network (East)	HD	296
Cartoon Network (West)		297
CBS Sports Network	HD	221
CCTV News[3]		2119
Celebrity Shopping Network		95/223
Centric		338
Chiller		257
Church Channel		371
Cloo		308
CMT	HD	327
CNBC	HD	355
CNBC World		357
CNN	HD	202
Comedy Central	HD	249
Comedy TV (HD only)[2]	HD	382
Cooking Channel	HD	232
C-SPAN		350
C-SPAN2		351
CTN		376
Daystar		369
Destination America	HD	286
DIRECTV CINEMA Screening Room		125
DIRECTV HD SPORTSMIX®	HD	205/600
Discovery	HD	278
Discovery Family Channel		294
Discovery Life		261
Disney Channel (East)	HD	290
Disney Channel (West)		291
Disney Junior	HD	289
Disney XD	HD	292
DIY Network	HD	230
E!	HD	236
El Rey		341
ENCORE East	HD	535
ENCORE West		536
ENCORE Action	HD	541
ENCORE Black		540
ENCORE Classic		537
ENCORE Family		542
ENCORE Suspense		539
ENCORE Westerns		538
Enlace[3]		448
ESPN	HD	206
ESPN2	HD	209
ESPNEWS	HD	207
ESPNU	HD	208
Esquire Network		235
EVINE		73/316
EWTN		370
Food Network	HD	231
FOX Business Network	HD	359
FOX News Channel	HD	360
FOX Sports 1	HD	219
FOX Sports 2	HD	618
Free Speech TV[7]		348
Freeform	HD	311
Fuse	HD	339
Fusion (HD only)[2]	HD	342
FX	HD	248
FX Movie Channel		258
FXX	HD	259
fyi	HD	266
Galavisión	HD	404
GEB America[3]		363
GEM Shopping Network		228
GOD TV[7]		365
Golf Channel	HD	218
Great American Country (GAC)		326
GSN		233
Hallmark Channel	HD	312
HGTV	HD	229
HISTORY	HD	269
HITN TV[6]		461
HLN	HD	204
Hope Channel[2]		368
HSN		240
IFC	HD	564
IMPACT![2]		380
INSP		364
Investigation Discovery	HD	285
ION Television (East)	HD	305
ION Television (West)		306
Jewelry Television		72/313
Jewish Life Television[2]		366
Justice Central (HD only)[2]	HD	383
Lifetime	HD	252
Link TV		375
Liquidation Channel		226
LMN	HD	253
Logo		272
MAVTV		214
MLB Network	HD	213
THE MOVIE CHANNEL EAST	HD	553
THE MOVIE CHANNEL WEST		554
MSNBC	HD	356
MTV	HD	331
MTV2	HD	333
NASA TV[2]		352
Nat Geo WILD	HD	283
National Geographic Channel	HD	276
NBA TV	HD	216
NBC Sports Network	HD	220
NBC Universo[3]	HD	410
NFL Network	HD	212
NHL Network	HD	215
Nick Jr.	HD	301
Nickelodeon/Nick at Nite (East)	HD	299
Nickelodeon/Nick at Nite (West)		300
Nicktoons		302
NRB		378
Ovation	HD	274
OWN (Oprah Winfrey Network)	HD	279
Oxygen		251
pivot		267
POP		273
Pursuit Channel		604
QVC	HD	275/317
QVC Plus		315
ReelzChannel	HD	238
RFD-TV		345
Revolt (HD only)[2]	HD	384
Science	HD	284
SEC Network	HD	611
Son Life Broadcasting Network		344
Spike	HD	241
Sportsman Channel		605
Sprout		295
SundanceTV	HD	557
Syfy	HD	244
TBS	HD	247
TCM	HD	256
TCT Network		377
TeenNick		303
Tennis Channel	HD	217
TLC	HD	280
TNT	HD	245
Travel Channel	HD	277
Trinity Broadcasting Network (TBN)		372
truTV	HD	246
TV Land	HD	304
TV One		328
TVG		602
UniMás	HD	408
Univision Deportes Network	HD	464
Univision (East)	HD	402
UP		338
Uplift[2]		379
USA Network	HD	242
Velocity (HD only)[2]	HD	281
VH1	HD	335
VH1 Classic		337
Viceland	HD	271
Vme[3]		440
WE tv	HD	260
The Weather Channel	HD	362
WeatherNation	HD	361
WGN America	HD	307
The Word Network		373
World Harvest Television (WHT)		367
SonicTap Music Channels[3] – 80		

PREMIER™ PACKAGE

Over 315 top channels, including local channels (in SD and HD) available in over 99% of U.S. households:[1] ABC | CBS | FOX | NBC | PBS | CW & MyTV (available in select markets); with over 45 premium movie channels and over 35 specialty sports networks.[5] Includes all channels in ULTIMATE, plus the channels shown in BOLD.

A&E	HD	265
Al Jazeera America	HD	347
Altitude Sports	HD	681
AMC	HD	254
American Heroes Channel		287
America's Auction Network		324
Animal Planet	HD	282
Aqui[3]		401
Arirang TV[6]		2095
ASPiRE	HD	381
AUDIENCE®	HD	101
AXS TV (HD only)[2]	HD	340
BabyFirst TV[6]		293
BBC America	HD	264
BBC World News (HD only)[2]	HD	346
beIN SPORTS	HD	620
BET	HD	329
Bloomberg TV	HD	353
Boomerang		298
Bravo	HD	237
BTN	HD	610
BYUtv		374
CANAL ONCE[3]		447
Cartoon Network (East)	HD	296
Cartoon Network (West)		297
CBS Sports Network	HD	221
CCTV News[3]		2119
Celebrity Shopping Network		95/223
Centric		338
Chiller		257
Church Channel		371
CINEMAX (HD only)[2]	HD	523
CINEMAX East	HD	515
CINEMAX West	HD	516
5StarMAX East (HD only)[2]	HD	520
ActionMAX East (HD only)[2]	HD	519
MoreMAX[2]	HD	517
MovieMAX East (HD only)[2]	HD	521
ThrillerMAX (HD only)[2]	HD	522
Cloo		308
CMT	HD	327
CNBC	HD	355
CNBC World		357
CNN	HD	202
Comcast SportsNet Bay Area	HD	696
Comcast SportsNet California	HD	698
Comcast SportsNet Chicago	HD	665
Comcast SportsNet Mid-Atlantic	HD	642
Comcast SportsNet New England	HD	630
Comedy Central	HD	249
Comedy TV (HD only)[2]	HD	382
Cooking Channel	HD	232
C-SPAN		350
C-SPAN2		351
CTN		376
Daystar		369
Destination America	HD	286
DIRECTV CINEMA Screening Room		125
DIRECTV HD SPORTSMIX®	HD	205/600
Discovery	HD	278
Discovery Family Channel		294
Discovery Life		261
Disney Channel (East)	HD	290
Disney Channel (West)		291
Disney Junior		289
Disney XD	HD	292
DIY Network	HD	230
E!	HD	236
El Rey		341
ENCORE East	HD	535
ENCORE West		536
ENCORE Action	HD	541
ENCORE Black		540
ENCORE Classic		537
ENCORE Family		542
ENCORE Suspense		539
ENCORE Westerns		538
Enlace[3]		448
ESPN	HD	206
ESPN Bases Loaded (HD only)[2]		615
ESPN Buzzer Beater (HD only)[2]		615
ESPN Classic		614
ESPN Goal Line (HD only)[2]		615
ESPN2	HD	209
ESPNEWS	HD	207
ESPNU	HD	208
Esquire Network		235
EVINE		73/316
EWTN		370
FLIX		556
Food Network	HD	231
FOX Business Network	HD	359
FOX News Channel	HD	360
FOX Sports 1	HD	219
FOX Sports 2	HD	618
Fox Sports Southeast	HD	649
Fox Sports Sun	HD	653
Free Speech TV[7]		348
Freeform	HD	311
FSN Arizona	HD	686
FSN Cincinnati	HD	661
FSN Detroit	HD	663
FSN Florida	HD	654
FSN Midwest	HD	671
FSN North	HD	668
FSN Ohio	HD	660
FSN San Diego	HD	694
FSN South	HD	646
FSN Southwest	HD	676
FSN West	HD	692
Fuse	HD	339
Fusion (HD only)[2]	HD	342
FX	HD	248
FX Movie Channel		258
FXX	HD	259
fyi	HD	266
Galavisión	HD	404
GEB America[3]		363
GEM Shopping Network		228
GOD TV[7]		365
Golf Channel	HD	218
Great American Country (GAC)		326
GSN		233
Hallmark Channel	HD	312
Hallmark Movies & Mysteries (HD only)[2]	HD	565
HBO East	HD	501
HBO West	HD	504
HBO2 East	HD	502
HBO2 West	HD	505
HBO Comedy (HD only)[2]	HD	506
HBO Family East	HD	507
HBO Family West		508
HBO Latino	HD	511
HBO Signature	HD	503
HBO Zone (HD only)[2]	HD	509
HGTV	HD	229
HISTORY	HD	269
HITN TV[6]		461
HLN	HD	204
Hope Channel[2]		368
HSN		240
IFC	HD	564
IMPACT![2]		380
INSP		364
Investigation Discovery	HD	285
ION Television (East)	HD	305
ION Television (West)		306
Jewelry Television		72/313
Jewish Life Television[2]		366
Justice Central (HD only)[2]	HD	383
Lifetime	HD	252
Link TV		375
Liquidation Channel		226
LMN	HD	253
Logo		272
Longhorn Network (HD only)[2]	HD	677
MASN	HD	640
MAVTV		214
MLB Network	HD	213
THE MOVIE CHANNEL EAST	HD	553
THE MOVIE CHANNEL WEST		554
THE MOVIE CHANNEL XTRA EAST (HD only)[2]	HD	555
MSG	HD	634
MSG+	HD	635
MSNBC	HD	356
MTV	HD	331
MTV2	HD	333
NASA TV[2]		352
Nat Geo WILD	HD	283
National Geographic Channel	HD	276
NBA TV	HD	216
NBC Sports Network	HD	220
NBC Universo[3]	HD	410
NESN	HD	628
NFL Network	HD	212
NHL Network	HD	215
Nick Jr.	HD	301
Nickelodeon/Nick at Nite (East)	HD	299
Nickelodeon/Nick at Nite (West)		300
Nicktoons		302
NRB		378
Outdoor Channel		606
Ovation	HD	274
OWN (Oprah Winfrey Network)	HD	279
Oxygen		251
pivot		267
POP		273
Prime Ticket	HD	693
Pursuit Channel		604
QVC	HD	275/317
QVC Plus		315
ReelzChannel	HD	238
Revolt (HD only)[2]	HD	384
RFD-TV		345
ROOT SPORTS Northwest	HD	687
ROOT SPORTS Pittsburgh	HD	659
ROOT SPORTS Rocky Mountain	HD	683
ROOT SPORTS Southwest	HD	674
Science	HD	284
SEC Network	HD	611
SHOWTIME EAST	HD	545
SHOWTIME WEST	HD	546
SHOWTIME 2	HD	547
SHOWTIME BEYOND (HD only)[2]	HD	550
SHOWTIME EXTREME	HD	549
SHOWTIME NEXT (HD only)[2]	HD	551
SHOWTIME SHOWCASE	HD	548
SHOWTIME WOMEN (HD only)[2]	HD	552
SNY	HD	639
Son Life Broadcasting Network		344
Spike	HD	241
Sportsman Channel		605
SportsTime Ohio	HD	662
Sprout		295
STARZ East	HD	525
STARZ West	HD	526
STARZ Cinema (HD only)[2]	HD	531
STARZ Comedy (HD only)[2]	HD	528
STARZ Edge[2]	HD	529
STARZ In Black[2]	HD	530
STARZ Kids & Family (HD only)[2]	HD	527
SundanceTV	HD	557
Syfy	HD	244
TBS	HD	247
TCM	HD	256
TCT Network		377
TeenNick		303
Tennis Channel	HD	217
Time Warner Cable Deportes	HD	470
Time Warner Cable SportsNet	HD	691
TLC	HD	280
TNT	HD	245
Travel Channel	HD	277
Trinity Broadcasting Network (TBN)		372
truTV	HD	246
TV Land	HD	304
TV One		328
TVG		602
UniMás	HD	408
Univision Deportes Network	HD	464
Univision (East)	HD	402
UP		338
Uplift[2]		379
USA Network	HD	242
Velocity (HD only)[2]	HD	281
VH1	HD	335
VH1 Classic		337
Viceland	HD	271
Vme[3]		440
WE tv	HD	260
The Weather Channel	HD	362
WeatherNation	HD	361
WGN America	HD	307
The Word Network		373
World Harvest Television (WHT)		367
YES Network[4]	HD	631
SonicTap Music Channels[3] – 84		

Add DIRECTV HD EXTRA PACK for just $4.99/mo. (HD equipment required). HD To access DIRECTV HD programming, HD television required. Number of HD channels based on TV plan.

ALL PROGRAMMING AND PRICING SUBJECT TO CHANGE AT ANY TIME. Lineups effective as of 1/28/16. Get updates at directv.com/channels. **1** Eligibility for local channels based on service address. Visit directv.com/locals and directv.com to see what is available in your area. To find out if HD locals are available in your area, visit directv.com/hdlocals. **2** Requires HD equipment. **3** Requires a DIRECTV Multi-Satellite System. **4** YES Network available as a local regional sports network package in CT, NY and in parts of NJ and PA as determined by ZIP code. Portions of YES Network programming available in SPORTS PACK premium package in the remainder of DIRECTV service areas. **5** Blackout restrictions and other conditions apply to all sports programming. Professional and collegiate sports subscriptions sold separately. **6** Longhorn Network is available to Texas residents only with CHOICE Package or above, based on ZIP code. Channel is available to all other customers with PREMIER Package or SPORTS PACK subscription. Programming, pricing, terms and conditions subject to change at any time. Pricing residential. Taxes not included. This lineup is available to the public at directv.com/channels. ©2016 AT&T Intellectual Property. All Rights Reserved. AT&T, Globe logo, DIRECTV, and all DIRECTV marks contained herein are trademarks of AT&T Intellectual Property and/or AT&T affiliated companies. All other marks are the property of their respective owners.

DIRECTV

AIR FORCE INNS
USAF SERVICES

Measures during COVID-19 Pandemic

During these extreme times lodging staff will take every measure to ensure the safety and comfort of our guests. While Arnold AFB remains in COVID posture there will be limited housekeeping services available.

Staff are taking extra steps in daily cleaning routines, and common areas are cleaned multiple times daily.

Guests are asked to use hand sanitizer frequently.

Guests staying **one to seven consecutive nights** will not receive in room housekeeping service. Towels, trash, and amenities can be exchanged at the door, or at the front desk.

Guest staying **seven consecutive nights or more**, can receive in room housekeeping service once a week. Guests must request and schedule this with Housekeeping. Guests will not be allowed in the room during this housekeeping service.

Each morning guests are asked to place trash and towels outside their door for housekeeping to collect. Housekeeping will replace towels and amenities requested at the door. Guests may also visit the front desk during business hours to exchange towels, trash, and amenities.

If you have any questions, please contact the front desk at 931-454-3051.

On behalf of the Wingo Inn staff, welcome to Arnold Air Force Base!

The Air Force Inns' Promise: "Our goal is to provide you a clean, comfortable room to guarantee a good night's rest and pleasant stay. If any part of your stay with us is not satisfactory, please provide the lodging manager or front desk staff an opportunity to 'make it right'."

Arnold has long been noted for its gracious Southern hospitality and retreat like setting. The men and women of Arnold strive to maintain this tradition. We take great pride in welcoming you to Arnold Air Force Base. Our goal is to ensure your stay is a relaxing and an enjoyable experience.

This guide has been prepared to help acquaint you with the policies and available services on Arnold AFB and in the local community. We sincerely welcome your comments and recommendations to help us improve the services we provide. If there is anything we can do to make your visit more comfortable please feel free to call on any member of our staff.

I hope you take advantage of everything Arnold AFB and Middle Tennessee have to offer. Sit back, relax and enjoy "The Best in Southern Hospitality."

Amy Brightbill, NH-03, DAFC
Chief, Resource & Sustainment Flight
Services Office
Test Support Division

GUEST RESPONSIBILITIES

Please find more information on these guidelines on pages

Please be considerate of other guests by observing quiet time between 10:00pm and 8:00am.

Do not place any trash outside your room or in the hallways of the building. This will attract unwanted insects and wildlife.

Housekeepers are not authorized to handle personal items and will be unable to make your bed if personal items are not put away. Please keep your room neat and orderly.

Lodging staff will not enter a guest room displaying a "Do Not Disturb" sign, unless the sign has been displayed for three consecutive days. On the third day, lodging staff will enter the room to ensure the safety of the guest and condition of the room. *(AFMAN 34-135 1.5.3. Guest Privacy.)*

Pets are only allowed in pet friendly rooms. Pet friendly rooms will be entered daily to remove excessive dander and fur, and inspected for fleas, ticks, and any damages caused by pets. Guests may be charged up to a $150.00 cleaning fee based on expenses incurred.

Ensure wet clothing and wet towels are not left on the furniture. You may leave wet Wingo Inn towels on the floor in your bathroom for guest services to replace with fresh towels.

All Air Force lodging common areas and guest rooms, including pet friendly rooms, are no-smoking areas. Guests may be charged up to a $150.00 fee based on expenses incurred to return the room to available inventory for violating the no-smoking policy. Tobacco includes, but is not limited to, cigars, cigarettes, e-cigarettes, stem pipes, water pipes, hookahs, and smokeless products. The designated area for tobacco use is located between the Wingo Inn and the ALC. *(AFMAN 34-135 1.6.1. No-Smoking Policy.)*

Any damage to the room(s) or furnishings that you are responsible for during your stay will be your financial responsibility. *(AFMAN 34-135 1.6.4 Occupant Responsibilities)*

Firearms, weapons, and explosives are not permitted on any part of the installation to include housing, lodging, and camping areas. You must make arrangements prior to arrival for storage of these items. Call 931-454-5662 to make arrangements for storage.

AIR FORCE INNS
USAF SERVICES

EMERGENCY CONTACT & SAFETY INFORMATION

FOR ALL EMERGENCIES DIAL 911

MEDICAL INFORMATION

Arnold AFB has an emergency response team with ambulance and firetruck services ONLY. When you dial 911, you must specify your location (Arnold AFB lodging at the housing gate) so that the emergency services will come from on base rather than the town nearby.

The closest emergency rooms are:

Unity Medical Center	**Harton RMC**	**United RMC**
481 Interstate Dr.	1801 North Jackson Street	1001 McArthur Dr.
Manchester, TN 37355	Tullahoma, TN 37388	Manchester, TN 37355
(931) 728-6354	(931) 393-3000	(931) 728-3586
14.7 Miles (19 Minutes)	*13.1 Miles (22 Minutes)*	*15.8 Miles (22 minutes)*

SECURITY FORCES

The Arnold Security Services desk may be reached at (931) 454-5662 for non-emergency type information.

FIRE & GROUND SAFETY

Your safety is very important to us. Please take time to familiarize yourself with all of the exits from the building in which you are located. There is a map on the back of your door.

The following are fire hazards and should be avoided:

- Smoking inside the facility is *strictly prohibited* per Air Force directives.
- Storing highly flammable liquids (gasoline, charcoal lighter fluid, flammable paint, etc.)
- Using unauthorized cooking and heating devices in your room (hot plate, grill, etc.)
- Placing charcoal grills within 15 feet of any building
- Placing hot appliances such as irons, coffeepots, etc. in drawers or on beds
- Overloading electrical circuits (use of multi-plugs is unauthorized)
- Leaving televisions, radios, or other electrical appliances on when you leave the room
- Not following good housekeeping practices

EMERGENCY CONTACT & SAFETY INFORMATION

FOR ALL EMERGENCIES DIAL 911

FIRE

Procedure: In the event of a fire, a fire alarm will sound. Please begin to evacuate the building by following the exit signs closest to your room. Once you have exited the facility, please assemble in the parking lot where a Wingo Inn Representative or a firefighter will get your name and information.

TORNADO

Procedure: In the event of a tornado, an alarm will sound from an outside tower speaker. Please seek shelter in the stairwell in the center of the building. Stay in this location until you hear the all clear or are told to return to your room by Arnold Security Services. If you are unable to make it to the stairwell safely, please seek shelter in your bathroom or closet.

Guidance in these situations will be given by staff during normal operating hours.

Normal hours are **Monday-Friday 7:00am-6:00pm.**

For holidays and weekends, **hours are 8:00am-4:00pm.**

FOR ALL NON-MEDICAL EMERGENCY SITUATIONS

To report situations such as a power outage or plumbing issues, please call the housing gate. (931) 454-4445

ARNOLD AFB STANDARDIZED ALARM SIGNALS *FOR ARNOLD AFB ONLY*			
WARNING OR CONDITION	SIGNAL	MESSAGE	REQUIRED ACTIONS
Weekly Test	One-minute steady siren.	"This is a test". This is a test of the emergency warning system."	None
Tornado Warning	A three to five-minute steady siren.	"Tornado warning. A tornado warning has been issued for this area. Seek immediate shelter."	Take shelter in the closest building or land depression. If you are in a building, stay there and take shelter in the strongest part of the structure (normally the lowest level of the building away from doors and windows).
Hazardous Material Release	A "whoop" sound, repeated as necessary.	"Hazardous material release. A hazardous material release has occurred. Hazardous material release."	Stay inside. Close all doors and windows. Shut off air conditioning/heating system. (Instructions will be issued depending on the situation).
All Clear	Air horn sound	"All clear: The emergency is over. All clear."	Resume normal operations or initiate recovery actions.
Exercise Start	High Low, High Low	"Base exercise. A base exercise is in progress. Base exercise."	Refer to your organizational checklist for your necessary action(s).
Exercise Termination	High Low, High Low	"Exercise termination. The base exercise has been terminated. Exercise terminated."	Resume normal operations.
Attack Warning	A three to five-minute wavering tone on sirens.	"Attack warning. An attack is imminent. Seek immediate shelter. Attack warning."	Go immediately to one of three designated fallout shelters: A&E (Bldg.#100), Mark 1 (Bldg.#1075), or "G-Range" (Bldg.#678).

TRANSPORTATION INFORMATION

***** PLEASE NOTE*****

Arnold AFB does not offer bus, taxi, or shuttle services on or off of the installation.

CAR RENTALS

Enterprise

(931) 455-2511

708 N Jackson St, Tullahoma, TN 37388

Hertz

(931) 571-2198

2264 N Jackson St, Tullahoma, TN 37388

OFFICIAL TRAVEL OFFICE

Wright Travel 1 (800) 643-5992

INFORMATION, TICKETS, AND TRAVEL

Services provided are limited. Arnold does not keep tickets on stock. Please plan ahead and allow processing time for your ticket order.

Located inside Outdoor Recreation, Building 3055, (931) 454-6084

GENERAL LODGING INFORMATION

FRONT DESK HOURS:

M-F 7:00am-6:00pm

Sat-Sun, Holidays 8:00am- 4:00pm

BUSINESS CENTER

A computer with CAC access and printer is available in the lobby. You are welcome to connect your personal computer to the printer available. During business hours, the front desk will be happy to assist you with printing, scanning, and faxing needs.

CHECK OUT

We know you have to leave at some point, and we hate to see you go, but if you must, check out is at 11:00 AM. Late checkouts will be charged for an additional night unless prior arrangements are made with the lodging manager. Please return your room key to the front desk upon checkout.

Early Checkouts – Please place your room keys in the drop box on the front desk. We will email a copy of your receipt.

CHECK CASHING/ATM MACHINES

Checks may be written for the amount of the lodging bill only. Lodging does not cash checks. There are no ATM machines located inside Arnold Village. The nearest ATM is for Ascend Federal Credit Union located on the main base in the Commissary parking lot. Proper ID is required for main base access.

CLOCK RADIOS

Clock radios are provided in each of our rooms for your listening enjoyment. To set a wake up time, press the "alarm set" button. The wake time on the display will flash. Use the "reverse tuning" or "forward tuning" buttons to set the alarm time. Press the "enter" button to set the buzzer alarm. Current time should once again be displayed.

COFFEE MAKER

A coffee maker is provided in each room for your use. To make a cup of coffee, follow these instructions: Place a coffee packet tray into the slot on the coffee machine. Fill the reservoir located on the top of the coffee maker with one cup of water. Place a serving cup under the brew tray and press the start button.

CONFERENCE ROOM

A conference room is available on the second floor. It seats 18 people, has a projector, smart board, speaker phone, and dry erase boards. A laptop is available for use as well. The conference room is free for Wingo guests. You can reserve time in the conference room at the front desk.

CLASSIFIED DOCUMENT STORAGE

The Wingo Inn is not authorized to store classified documents. Please contact Arnold Security Services at (931) 454-5662.

FITNESS ROOM

The fitness room is located on the second floor across from room 213. The room is equipped with a treadmill, an elliptical, and a stationary bike. The fitness room is available 24 hours a day.

HOUSEKEEPING SERVICES

Daily housekeeping services are provided. In order for us to provide a complete cleaning service, we request that you place all personal belongings in drawers and closets. Please do not leave personal items on the floor or on the bed.

Short stay – For guests staying between 1-6 days- Daily services include making beds, removing trash, cleaning bathrooms, replacing towels (if left on floor in bathroom), replacing coffee and coffee amenities, and providing dusting and light vacuuming if needed.

Extended Stay – Daily services include all services provided during short stay plus bed linens replaced every 7 days and vacuuming or mopping.

DO NOT DISTURB

Lodging staff will not enter a guest room displaying a "Do Not Disturb" sign, unless the sign has been displayed for three consecutive days. On the third day, lodging staff will enter the room to ensure the safety of the guest and condition of the room after 11:00 am. (AFMAN 34-135 1.5.3. Guest Privacy.)

KITCHEN

A community kitchen is available for all Wingo Inn Guests. It is located on the first floor. This is a shared area, please clean up after yourself. Pots, pans, plates, utensils, refrigerators, stove, and oven are all provided.

ICE MACHINE / VENDING MACHINE

A drink machine, ice machine, and snack machine are all located on the first floor. Additional drinks and snacks are available during normal business hours at the front desk. You may also purchase frozen dinners from the front desk.

IRON & IRONING BOARD

An iron and ironing board are provided in each room for your convenience. Please do not leave the iron plugged in and unattended or place the iron on the furniture or bedding. If using the steam feature on the iron please empty all water out of the iron when finished.

LAUNDRY

The laundry room is located on the first floor near the front desk. Detergent is available for purchase at the front desk or in the vending machine located in the laundry room. Use of the washing and drying machines is provided at no cost to all lodging guests.

SAVE THE TOWELS

If you would like to reuse your towels, hang them on the towel racks. If you would like your towels replaced, leave them on the bathroom floor. Please do not remove linens or bath towels from your room. You may request additional linens during normal operating hours by speaking with the front desk staff.

BEVERAGES, SNACKS & AMENITIES FOR PURCHASE

Each guest room is stocked with drinks and snacks for purchase. Please complete the form in the room for stocked items. Additional drinks and snacks are available for purchase at the front desk during normal operating hours. Also available at the front desk for purchase are standard toiletry items and frozen dinners.

LOST & FOUND

Lost and found items are kept for 30 days before being disposed of. Perishable items will be disposed of when found.

MAIL

The nearest Post Offices are located at:

200 S Jackson St.	1601 Hillsboro Blvd
Tullahoma, TN 37388	Manchester, TN 37355
(931) 455-3675	(931) 728-8868

PETS

Pet owners will be charged a standard $10 per room per night fee regardless of the number of pets in the unit and duration of stay. Housekeeping or lodging management will enter Pet Friendly TLFs daily. Guests may be charged up to a $150.00 cleaning fee based on expenses incurred to return the room to available inventory when pet friendly TLFs require extraordinary cleaning or incur damages. (AFMAN 34-135 1.6.2. and 1.19.2. Pet Friendly TLFs.) *A list of kennels can be found on page 15*

ROOM FEES & PAYMENT

DV Quarters:	$94.00 per night
Visiting Quarters:	$84.00 per night

Pet friendly room fees are an additional $10.00 per night.

SPACE "A" LODGING

Non-Active Duty personnel are housed on a space available basis and must pay in advance. Reservations can be made up to 120 days in advance based on occupancy at the time of the inquiry. There is no wait list available for Space A guests. Reservations are made on a first come first served basis.

NON-SMOKING FACILITY

All Air Force lodging common areas and guest rooms, including TLF units, are no-smoking areas. If smoking does occur in a guest room, an efficient ionizer or deodorizer will be used to clean the room to rid it of smoke residue. Guests may be charged up to a $150.00 fee based on expenses incurred to return the room to available inventory for violating the no-smoking policy. Once cited, guests who violate this policy are subject to eviction as determined by the lodging manager. Tobacco may be used in the tobacco use area located between the Wingo Inn and Arnold Lakeside Center. (AFMAN 34-135 1.6.1. No-Smoking Policy.)

AIR FORCE INNS
USAF SERVICES

QUICK REFERENCE PHONE LIST

The Area Code for Arnold Air Force Base is 931 (931-XXX-XXXX)
The DSN prefix for Arnold Air Force Base is 340 (340-XXXX)

To call Arnold AFB from overseas: 312-340-XXXX (operator 340-3000)
To do "off-net calls" (Morale Calls) you must call the operator as listed above. All other "morale call numbers" are now disconnected. Please share this information with those who have "morale call listings".

Emergency Fire/Police/Ambulance 911 on base telephone system
(931) 454-3117 from base housing or cell phone
Crime Stop (Security Forces Desk) 454-5662
Fire Dept. Desk 454-5648

Military Family Housing Office 454-7687

--------- Other numbers in alphabetical order: ----------

AEDC Inspector General	454-5202	Historian	454-4203
Arnold Lakeside Center	454-3350	Household Goods &	
Barber Shop	454-6987	Personal Property	454-7805
Base Civil Engineer	454-3550	Housing Office	454-5454
Base Exchange (BX)	454-7153	Housing Gate	454-4445
Base Operator	454-3000	Hunting/Land Use	454-5466
Café 100	454-5885	Library	454-7220
Chaplain	454-7970	Information Management	454-4432
Cmd Action/Idea Hot Line	454-6000	Lodging (Wingo Inn)	454-3051
Commissary	454-7249	Legal Office	
Contracting Office	454-7806	(Staff Judge Advocate)	454-7814
Credit Union	800-342-3086	Mulligan's Grill	454-3663
Dispensary (Medical Care)		Office of Special Investigations	454-7820
Air Force	454-5351	Outdoor Recreation	454-6084
Contractor	454-5385	Passports	454-4314
VA Clinic	454-6134	Personnel Offices	
Environmental Programs	454-6653	Air Force	454-7931
Equal Employment Opport	454-4313	Civilian	454-5477
Finance (AF)	454-4356	Services	454-5481
Fire (Non Emergency)	454-5648	Retired Activities Office	454-4574
Fitness Center (Gym)	454-6440	Security Forces (Police)	454-5662
Fraud, Waste &		Safety Office	454-7788
Abuse Hotline	454-4688	Travel (Wright Travel)	1-800-643-5992
Golf Course	454-4653	VA (Health Care) Clinic	454-6134
Gossick Leadership Center	454-4003	*Services Marketing	454-3128
		(*can help with any question)	

AIR FORCE INNS
USAF SERVICES

WINGO INN TELEPHONE INFORMATION

Commercial: (931) 454-3051 Fax: (931) 454-4004
DSN: 340-3051 Fax DSN: 340-4004

Arnold AFB Operator: (931) 454-3000

To Call:	**Dial:**
Front Desk	Front Desk Tab or 454-3051
Housekeeping	454-3055
Room at Wingo Inn	454 + Four Digit Number (see below)
On Base Office	454 + Four Digit Extension
On Base Operator	"0" or 454-3000
Local Number	99 + Seven Digit Number
Toll Free/Calling Card	99 + 1 + 800 + Number
DSN	94 + Number
Long Distance	Long Distance Not Available without Calling Card

The room number and phone number associated with your name will not be released to a caller or another guest. Our staff will transfer calls to your room.

Wingo Inn Room and Phone Numbers

Room	**Phone**	**Room**	**Phone**	**Room**	**Phone**
101	454-3040	112	454-3053	210	454-3077
102	454-3041	114	454-3054	211	454-3079
103	454-3042	115	454-3058	212	454-3081
104	454-3043	116	454-3062	213	454-3083
106	454-3044	117	454-3064	214	454-3068
107	454-3045	118	454-3067	215	454-3070
108	454-3046	119	454-3057	216	454-3074
109	454-3047	207	454-3073	217	454-3072
110	454-3049	208	454-3069	218	454-3076
111	454-3052	209	454-3075	219	454-3078

AIR FORCE INNS
USAF SERVICES

COMMUNITY TELEPHONE NUMBERS

The services listed are only a sample of what the area has to offer.
These services are not endorsed, they are simply provided for your information.
All information in this book is subject to change.

VETERINARIANS

24 Hour Animal Medical	234 River Rock Blvd	Murfreesboro	(615) 867-7575	48.2mi/47min
Animal Health Clinic	722 Hillsboro Hwy	Manchester	(931) 728-6633	10.6mi/15min
Animal Medical Clinic	600 W Lincoln St	Tullahoma	(931) 455-6723	12.2mi/20min
Town and Country Hosp.	44 AEDC Rd	Winchester	(931) 967-3666	12.3mi/18min

KENNELS

Happy Tails Pet Care	258 Hendrix Ln	Tullahoma	(931) 393-4848	12.7mi/22min
Animal Medical Clinic	600 W Lincoln St	Tullahoma	(931) 455-6723	12.2mi/20min
Animal Health Clinic	722 Hillsboro Hwy	Manchester	(931) 728-6633	11.9mi/16min
K-9 Kampus	436 Wheeler Rd	McMinnville	(931) 212-5907	26.6mi/36min

DRY CLEANERS

Courtesy Cleaning	100 W Lauderdale St	Tullahoma	(931) 455-5725	11.5mi/18min
Fashion Care Cleaners	904 Rye St	Manchester	(931) 723-1915	13.8mi/20min
Sisk's Dry Cleaners	100 Second Ave SE	Winchester	(931) 967-2573	14.2mi/25min
Snow-white Dry Cleaning	205 W Carrol St	Tullahoma	(931) 455-3473	11.4mi/17min

GROCERY STORES

ALDI	2014 N Jackson St	Tullahoma	(855) 955-2534	14mi/23min
Food Lion	944 Hillsboro Blvd	Manchester	(931) 728-0995	13.7mi/21min
	411 W Lincoln St	Tullahoma	(931) 455-9145	12.1mi/20min
Kroger	1905 N Jackson St	Tullahoma	(931) 454-0482	13.8mi/25min
	1840 Decherd Blvd	Decherd	(931) 967-1203	12.8mi/25min
Publix	1600 N Jackson St	Tullahoma	(931) 408-6380	14.1mi/25min
Walmart	2518 Hillsboro Blvd	Manchester	(931) 728-6000	12mi/18min
	2111 N Jackson St	Tullahoma	(931) 455-1382	14.1mi/25min

AIR FORCE INNS
USAF SERVICES

COMMUNITY TELEPHONE NUMBERS

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BOWLING				
Tullahoma Lanes	900 S Anderson St	Tullahoma	(931) 455-1947	10.5mi/15min
ENTERTAINMENT/CONCERTS				
Grand Ole Opry	2804 Opryland Dr	Nashville	(615) 871-6779	81.3mi/1hr18min
Ryman Auditorium	116 5th Ave N	Nashville	(615) 889-3060	78.7mi/1hr17min
Ascend Amphitheater	310 1st Ave S	Nashville	(615) 999-9000	76.8mi/1hr13min
Cumberland Caverns	1437 Cumberland Cavern Dr	McMinnville	(931) 668-4396	38.2mi/52min
Bridgestone Arena	501 Bdwy	Nashville	(615) 770-2000	78.6mi/1hr15min
MUSEUMS				
Arrowheads/Aerospace	24 Campground Rd	Manchester	(931) 723-1323	11.7mi/16min
Beechcraft Museum	570 Old Shelbyville Hwy	Tullahoma	(931) 455-1974	13.9mi/23min
Ledford Mill Museum	1195 Shipman Creek Rd	Wartrace	(931) 455-2546	17.1mi/29min
Cowan Rail Road	108 Front St.	Cowan	(931) 967-3078	21.2mi/31min
TOURS & SIGHTS				
Jack Daniels Distillery	133 Lynchburg Hwy	Lynchburg	(931) 759-6357	2.3mi/34min
George Dickel Distillery	1950 Cascade Hollow Rd	Tullahoma	(931) 857-4110	17.1mi/28min
Old Shed Brewery	516 E Carrol St	Tullahoma	(931) 212-4277	10.7mi/16min
Beans Creek Winery	426 Ragsdale Rd	Manchester	(931) 723-2294	14.8mi/19min
BANKS				
American City Bank	340 W Lincoln St	Tullahoma	(931) 455-0026	11.9mi/19min
Regions Bank	1200 N Jackson St	Tullahoma	(931) 734-4667	12.8mi/20min
Ascend FCU *Ascend can also be found*	1611 N Jackson St *on base or in these communities:*	Tullahoma (Manchester and Winchester)	(800) 342-3086	13.2mi/22min

AIR FORCE INNS
USAF SERVICES

COMMUNITY TELEPHONE NUMBERS

The services listed are only a sample of what the area has to offer.
These services are not endorsed, they are simply provided for your information.
All information in this book is subject to change.

NIGHTLCLUB/ SPORTSBAR

One 22 West	122 Lincoln St	Tullahoma	(931) 455-2194	11.6mi/19min
Daddy Billy's	119 NW Atlantic St	Tullahoma	(931) 455-6194	11.6mi/19min
London's	101 Wall St	Tullahoma	(931) 571-8410	11.6mi/19min

PARKS

Short Springs Natural	1-99 Powell Rd	Tullahoma	(615) 532-0436	13.8mi/23min
Old Stone Fort	723 Stone Fort Dr	Manchester	(931) 723-5073	17.7mi/24min
Tim's Ford	570 Tim's Ford Dr	Winchester	(931) 962-2706	18mi/30min
South Cumberland	11745 US 41	Monteagle	(931) 924-2956	29mi/34min
Fall Creek Falls	10821 Park Rd	Spencer	(423) 881-5298	68.6mi/1hr25min
Rock Island	82 Beach Rd	Rock Island	(931) 686-2471	48.9mi/1hr5min

SHOPPING CENTERS

Northgate Mall	N Jackson St	Tullahoma	(931) 455-6668	13.2mi/22min
Stones River Mall	1720 Old Fort Parkway	Murfreesboro	(615) 869-4486	47.6/50min
The Avenue	2615 Medical Center Pkwy	Murfreesboro	(615) 893-4207	50.3mi/1hr16min
Parkway Place	2801 Memorial Pkwy SW	Huntsville, AL	(256) 533-9094	61.2mi/1hr24min
Bridge Street Town Cent.	365 The Bridge St	Huntsville, AL	(256) 327-8400	65mi/1hr28min
Opry Mills	433 Opry Mills Drive	Nashville	(615) 514-1000	81mi/1hr16min

SKATING

Galaxy Skate	200 Ledford Mill	Tullahoma	(931) 461-1074	14.8mi/25min

THEATERS

Tullahoma 8 Theater	2221 N Jackson St	Tullahoma	(931) 455-7307	14.7mi/26min
Montana Drive Inn	10251 Tullahoma Hwy	Estill Springs	(931) 649-3454	7.7mi/13min
Oldham Theater	115 1st Ave NE	Winchester	(931) 967-2516	14.1mi/25min
Regal Opry Mills (IMAX)	570 Opry Mills Dr	Nashville	(844) 462-7342	81.1mi/1hr16min
Carmike Wynnsong	2626 Cason Sq. Blvd	Murfreesboro	(615) 893-3278	48.4mi/49min

AIR FORCE INNS
USAF SERVICES

COMMUNITY TELEPHONE NUMBERS

The services listed are only a sample of what the area has to offer.
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LOCAL CHURCHES

First Assembly of God	1105 W Lincoln St	Tullahoma	(931) 455-2984	13.1mi/21min
United Pentecostal of Winchester	504 South Jefferson St	Winchester	(931) 434-3899	14.4mi/26min
First Baptist Church	108 E Grundy St	Tullahoma	(931) 455-5461	11.5mi/18min
Rutledge Falls Baptist Church	1289 Rutledge Falls Road	Tullahoma	(931) 455-8879	12mi/20min
Good Shepherd Catholic Church	2037 Decherd Blvd	Decherd	(931) 967-0961	12.4mi/20min
St Paul the Apostle Catholic Church	306 W Grizzard St	Tullahoma	(931) 455-4221	12.1mi/20min
Decherd Church of God	1300 W Market St	Decherd	(931) 967-5206	12.6mi/21min
Tullahoma Church of God	103 S Vine St	Tullahoma	(931) 454-1206	12.1mi/20min
Estill Springs Church of Christ	606 S Main St	Estill Springs	(931) 649-5833	8.5mi/15min
Highland Hills Church of Christ	720 Kings Ln	Tullahoma	(931) 455-8513	12.9mi/21min
Estill Springs Nazarene Church	105 Flower Lane Dr	Estill Springs	(931) 649-3867	8.6mi/15min
First Church of the Nazarene	201 S Polk St	Tullahoma	(931) 455-5008	11.2mi/17min
Cumberland Presbyterian Church	838 McArthur St.	Manchester	(931)728-2975	15.7mi/20min
First Baptist Church	1006 Hillsboro Blvd	Manchester	(931) 728-2138	13mi/18min
St Mark Catholic Church	2941 McMinnville Hwy	Manchester	(931) 723-4107	16.1mi/20min
Manchester Church of God	413 Oakdale St	Manchester	(931) 728-7079	17mi/22min
Shorter Chapel AME Church	402 SW Atlantic St.	Tullahoma	(931) 393-3028	11.4mi/18min
Mount Zion Baptist Church	301 S Washington St.	Tullahoma	(931) 841-3949	11.1mi/17min

BASE FACILITIES

Because Arnold AFB is a unique installation, it does not offer all of the amenities usually found at other Air Force Installations.

Gas Station
Arnold AFB does not have a gas station run by AFEES.

Closest Gas Station – Not 24 Hours
Adams Lakeside Market
8677 AEDC Rd. Estill Springs, TN 37330
931-967-4045

Closest Gas Stations Available 24 hours
Multiple Locations in Manchester TN
Ext 114 Off Interstate 24

Commissary
There is a small commissary located on main base. The commissary is the first complex on the right hand side, as you enter the Main Gate.

Exchange
There is a very small exchange located on the main base. The Exchange is the first complex on the right hand side, as you enter the Main Gate.

Commissary / Exchange Hours
Sun-Mon Closed
Tue-Fri 0900-1730
Sat 0800-1630

Food Court
Arnold AFB does not have a food court. Dining options are very limited on base.

AIR FORCE INNS
USAF SERVICES

LOCAL RESTAURANTS

The services listed are only a sample of what the area has to offer.
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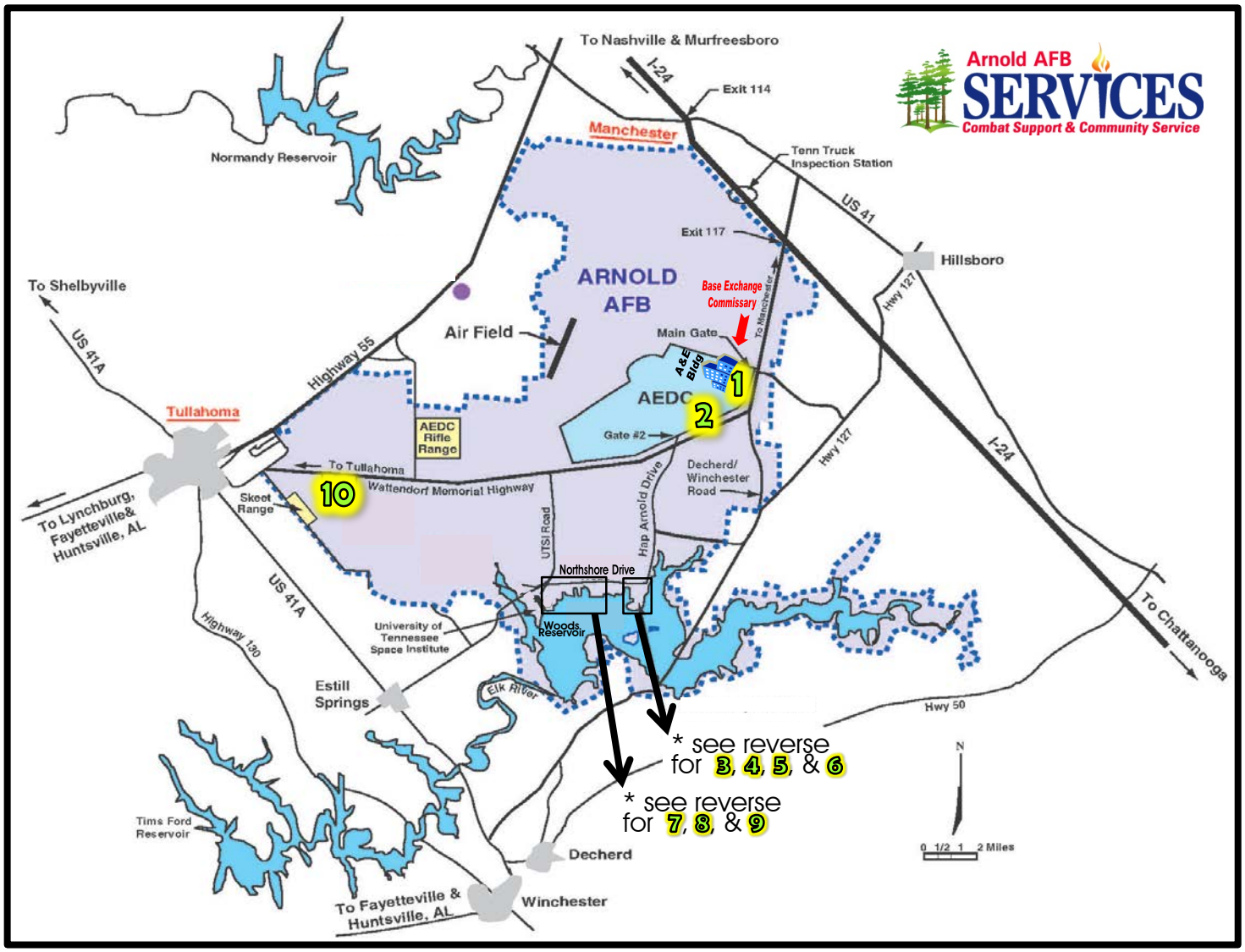
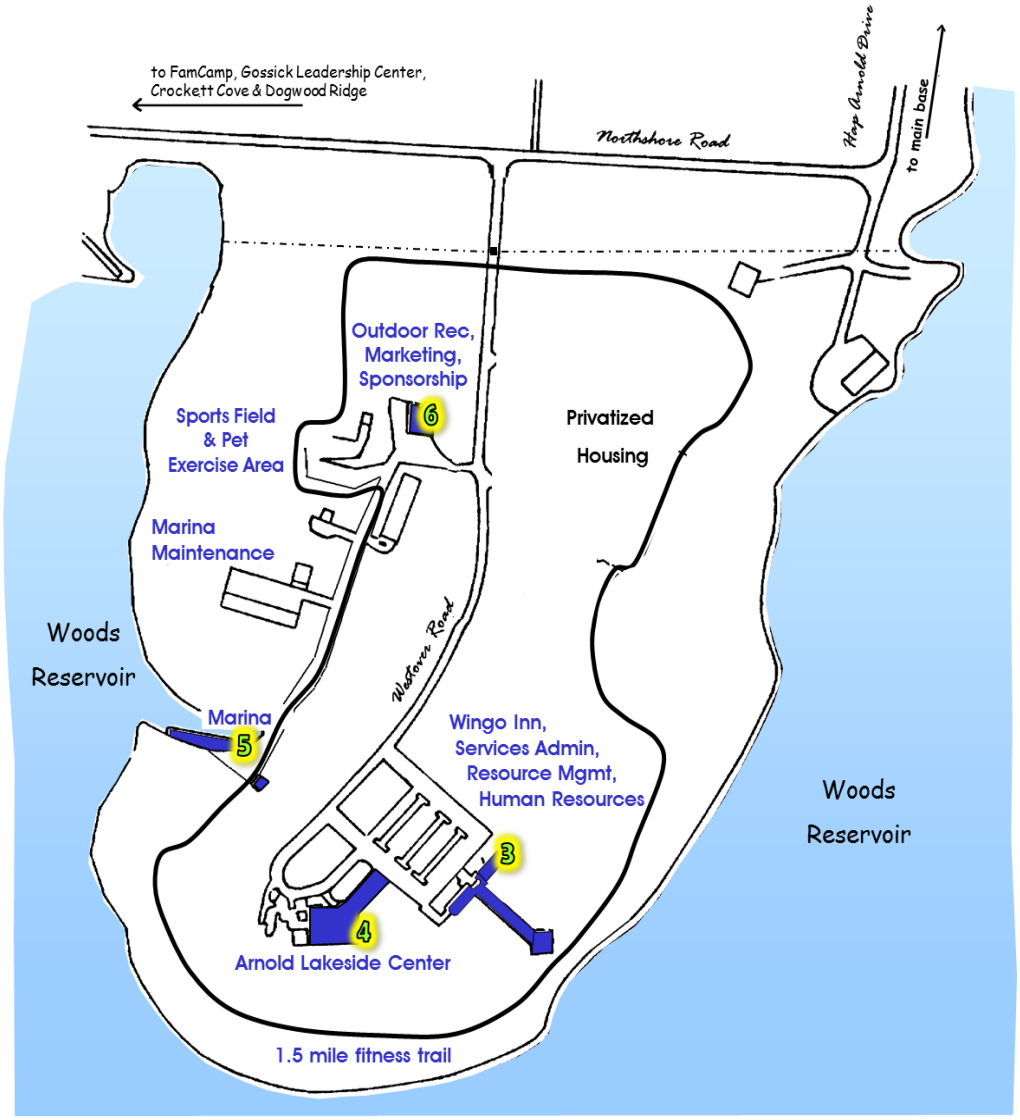
Sunrise the Breakfast Place	42 E. Heikens Dr.	Dechard	(931) 962-3355	12.1mi/20min
One 22 West	122 W Lincoln St	Tullahoma	(931) 455-2194	11.6mi/18min
London's	W Lincoln St	Tullahoma	(931) 571-8410	11.6mi/18min
Emil's	210 E Lincoln St	Tullahoma	(931) 461-7070	11.3mi/17min
The Celtic Cup	106 N Anderson St	Tullahoma	(931) 563-7733	11.2mi/17min
Whiskey Trail BBQ	415 Wilson Ave	Tullahoma	(931) 222-4001	12.4mi/20min
Prater's Bar-B-Que	620 Woodbury Hwy	Manchester	(931) 954-5377	15.4mi/19min
Lu Lu's	204 S Main St	Estill Springs	(931) 649-3933	7.7mi/13min
Bluegill Grill	912 Old Awalt Rd	Tullahoma	(931) 455-3151	13.4mi/24min
Miss Mary Bobo's	295 Main St	Lynchburg	(931) 759-7394	24.6mi/42min
Barrel House BBQ	105 Mechanic St S	Lynchburg	(931) 759-5760	24.4mi/35min
Bell Buckle Cafe	16 Louisville	Bell Buckle	(931) 389-9693	36.3mi/40min
John T's BBQ Inc	115 1st Ave NE	Winchester	(931) 967-9600	14mi/24min
Camino Real Mexican	1106 Dinah Shore Blvd	Winchester	(931) 968-9930	13.4mi/23min
Oak Restaurant	947 Interstate Dr	Manchester	(931) 728-5777	15.3mi/19min
Los 3 Amigos	425 Woodbury Hwy	Manchester	(931) 728-7332	15.6mi/19min
Jiffy Burger	1001 Hillsboro Blvd	Manchester	(931) 728-4452	13.5mi/19min
J & G Pizza & Steak	520 McMinnville Hwy	Manchester	(931) 728-9696	14.9mi/19min
Las Trojas	1905 N Jackson St.	Tullahoma	(931) 454-2262	14.9mi/19min
Spinellis Pizza	121 NW Atlanitc St.	Tullahoma	(931) 563-5650	11.4mi/19min
Big Marv's BBQ	1134 AEDC Rd.	Winchester	(931) 967-8866	10.9mi/14min

Where to find Services activities...



1	Café 100 (A&E Bldg)	931.454.5885
2	Fitness Center	931.454.6440
3	* Wingo Inn, Admin, Resource Mgmt, Human Resources	931.454.3051/7779/7425/4945
4	* Arnold Lakeside Center (ALC) [includes Community Center]	931.454.3350
5	* Marina	931.454.6084
6	* Outdoor Rec (includes ITT), Marketing, Sponsorship	931.454.6084/3128/3171
7	* FamCamp	931.454.6084
8	* Gossick Leadership Center (GLC)	931.454.7779
9	* Crockett Cove and Dogwood Ridge	931.454.6084
10	Golf Course	931.454.GOLF (4653)



3

Wingo Inn	931.454.3051
Admin	931.454.7779
Resource Mgmt	931.454.7425
Human Resources	931.454.4945

4

Arnold Lakeside Center (ALC)
[includes Community Center]
931.454.3350

5

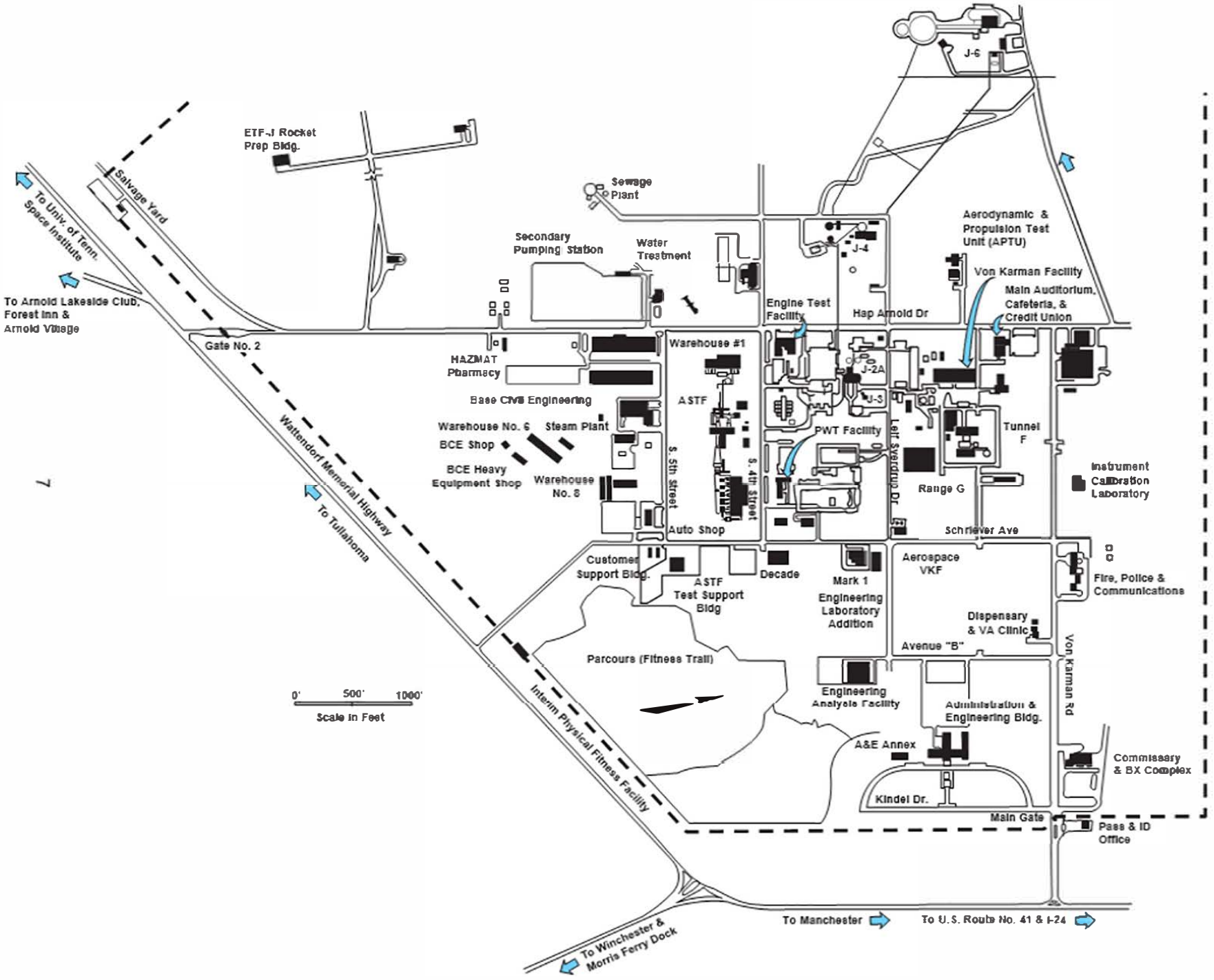
Marina	931.454.6084

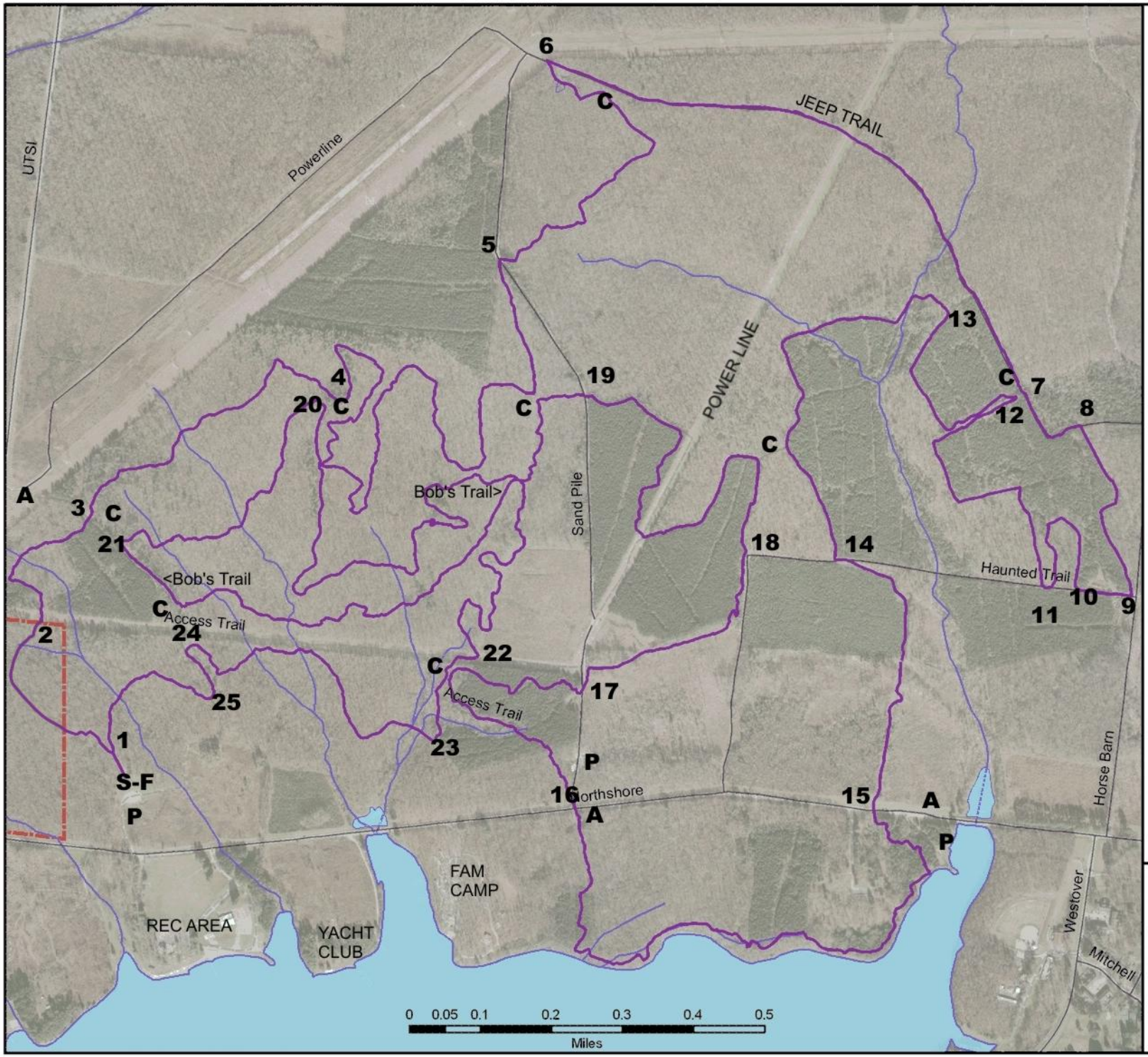
6

Outdoor Rec (includes ITT)	931.454.6084
Marketing	931.454.3128
Sponsorship	931.454.3171

7 FamCamp 931.454.6084 **8** Gossick Leadership Center (GLC) 931.454.7779

9 Crockett Cove and Dogwood Ridge 931.454.6084


J-6
ETF-1 Rocket Prep Bldg.
Salvage Yard
To Univ. of Tenn. Space Institute
To Arnold Lakeside Club, Forest Inn & Arnold Village
Gate No. 2
Sewage Plant
Secondary Pumping Station
Water Treatment
J-4
Aerodynamic & Propulsion Test Unit (APTU)
Von Karman Facility
Main Auditorium, Cafeteria, & Credit Union
Engine Test Facility
Hap Arnold Dr
Warehouse #1
HAZMAT Pharmacy
J-2A
J-3
Base Civil Engineering
ASTF
Warehouse No. 6
Steam Plant
BCE Shop
BCE Heavy Equipment Shop
Warehouse No. 8
S. 5th Street
S. 4th Street
PWT Facility
Leif Sverdrup Dr
Tunnel F
Range G
Instrument Calibration Laboratory
Auto Shop
Schriever Ave
Wattendorf Memorial Highway
To Tullahoma
Customer Support Bldg.
ASTF Test Support Bldg
Decade
Mark 1 Engineering Laboratory Addition
Aerospace VKF
Fire, Police & Communications
Dispensary & VA Clinic
Avenue "B"
Von Karman Rd
Parcours (Fitness Trail)
Engineering Analysis Facility
Administration & Engineering Bldg.
A&E Annex
Commissary & BX Complex
Kindel Dr.
Main Gate
Pass & ID Office
Interim Physical Fitness Facility
0' 500' 1000'
Scale in Feet
To Manchester
To U.S. Route No. 41 & I-24
To Winchester & Morris Ferry Dock



ATA Conservation

AAFB Boundary

AAFB Mountain Bike Trails

1-25 Location Tag
C Connector
A Trail Access
P Parking
S-F Start/Finish

ATA - A Joint Venture Between Jacobs Sverdrup, Computer Sciences Corporation, and General Physics

AAFB Mountain Bike Trails

Arnold Engineering Development Center
Arnold Air Force Base, Tennessee

AIR FORCE INNS

USAF SERVICES

Arnold AFB SERVICES

Combat Support & Community Service

Marketing Office
4174 Westover Rd
931-454-3128

Wingo Inn "The Best in Southern Hospitality."

AIR FORCE INNS

USAF SERVICES

Arnold AFB SERVICES

Combat Support & Community Service

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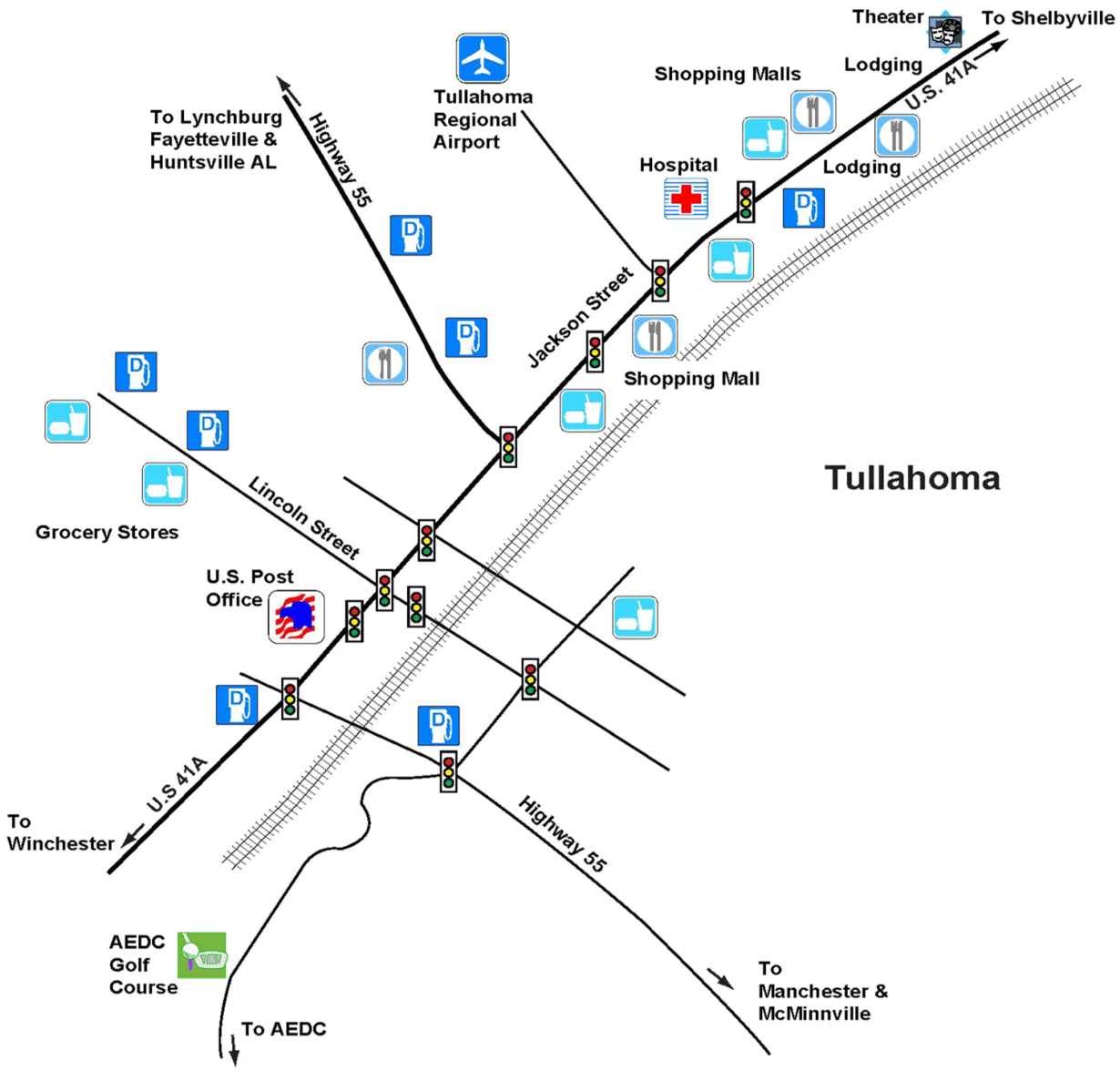
931-454-3128



Wingo Inn "The Best in Southern Hospitality."

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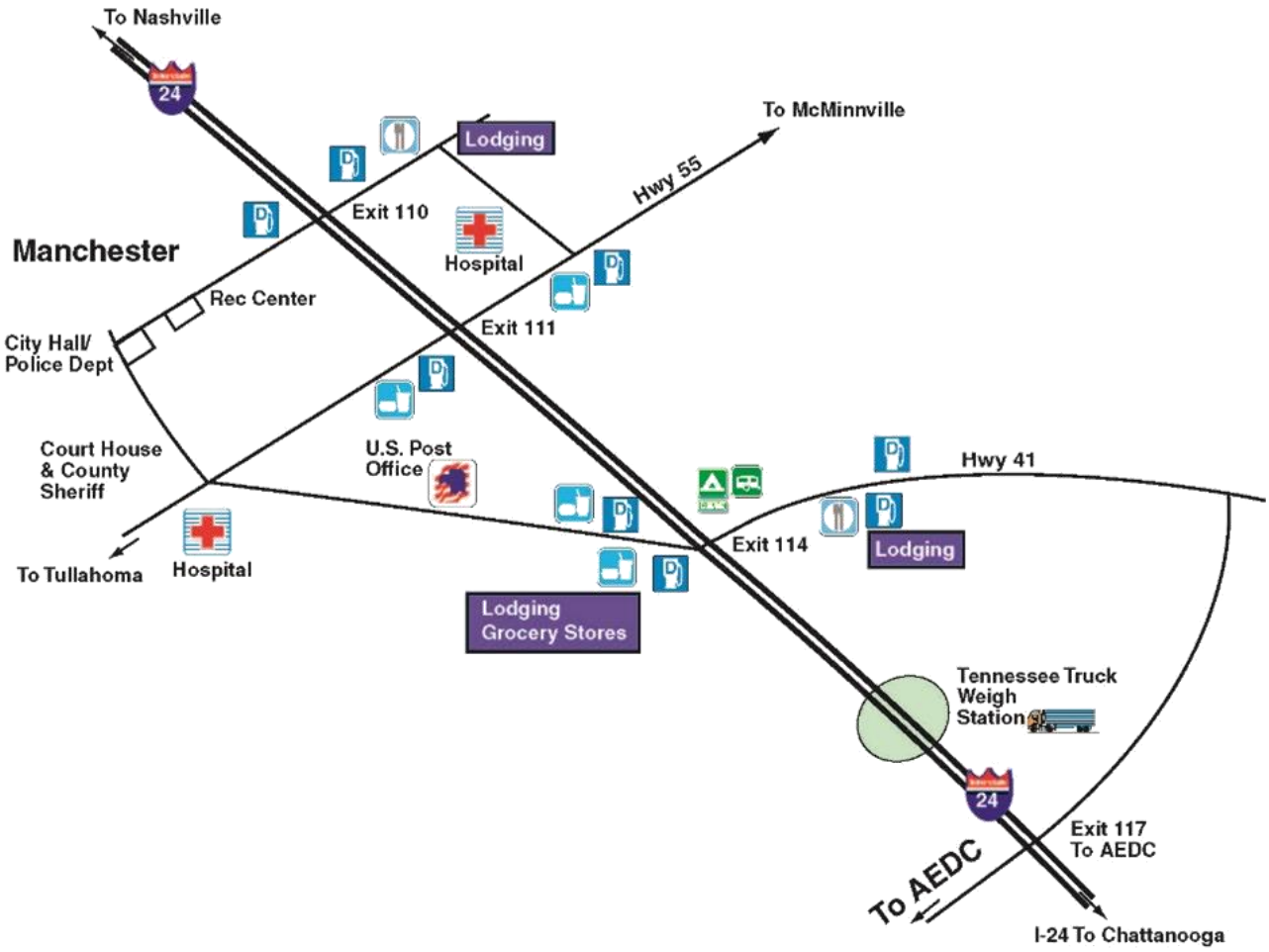

Wingo Inn "The Best in Southern Hospitality."

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USAF SERVICES

Arnold AFB SERVICES

Combat Support & Community Service

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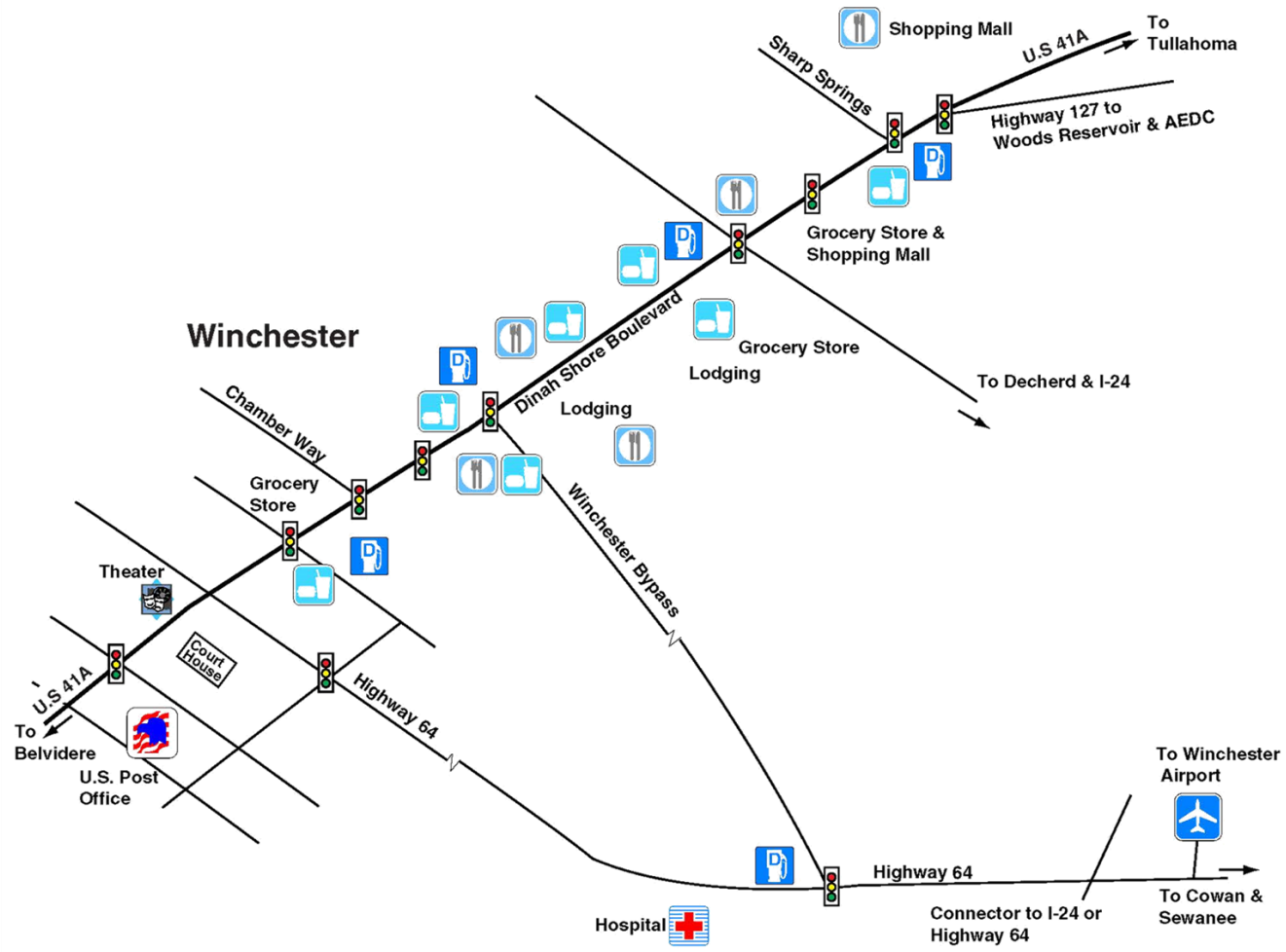


Wingo Inn "The Best in Southern Hospitality."

AIR FORCE INNS
USAF SERVICES

AREA ATTRACTIONS

Splash Island
This small town water park is just the right place to be on those hot summer days. There are slides, a lazy river, a pool, and entertainment for smaller children. Find more information on Facebook.
501 N Collins St. Tullahoma, TN 37388

12.8 MILES AWAY

Rutledge Falls
Rutledge falls encompasses all things beautiful. Take your hiking shoes and your camera, but unless you enjoy freezing water, a swimsuit is not necessary! (across the road from church)
1289 Rutledge Falls Rd. Tullahoma, TN 37388

17.4 MILES AWAY

Old Stone Fort State Park
Hiking trails, waterfalls & an abundance of archaeological & Native American history exhibits. (931) 723-5073
732 Stone Fort Dr., Manchester, TN 37355

15.3 MILES AWAY

Jack Daniel's Old Time Distillery and Town Square
See the process that makes Jack Daniel's Tennessee whiskey truly a unique whiskey. Learn the heritage of Lynchburg at the town square. (931) 759-6357
182 Lynchburg Hwy, Lynchburg, TN 37352

24.3 MILES AWAY

Sewanee Memorial Cross
The memorial cross sits in a wooded area on the edge of a bluff on the campus of The University of the South in Sewanee, TN. The cross is located at the end of **Tennessee Ave, Sewanee, TN.**

31.0 MILES AWAY

AIR FORCE INNS
USAF SERVICES

AREA ATTRACTIONS

Andrew Jackson's The Hermitage
See the home of Andrew Jackson, the seventh president of the United States! This mansion is a museum flowing with history and heritage. 615-889-2941
4580 Rachels Ln, Hermitage, TN 37076

85.3 MILES AWAY

Belle Meade Plantation
This Antebellum home in the heart of Nashville sits on beautiful farm land formerly used for thoroughbred horses. Visit for tours and exhibits. 615-356-0501
5025 Harding Pike, Nashville, TN 37205

83.0 MILES AWAY

Lookout Mountain Incline Railway
"America's most amazing mile" is what they call it! Enjoy scenic views of the mountains and valleys from the observation windows on the train. 423-821-4224
827 E Brow Rd, Lookout Mountain, TN 37350

70.7 MILES AWAY

Tennessee Aquarium
This aquarium is located near the banks of the Tennessee river in downtown Chattanooga. It is home to more than 12,000 animals representing almost 800 species. 800-262-0695
1 Broad St, Chattanooga, TN 37402

71.0 MILES AWAY

Nashville Zoo at Grassmere
Check out 200 acres of zoo and the historic plantation farmhouse on the property. There are many animals from all over the world. 615-833-1534
3777 Nolensville Pike, Nashville, TN 37211

71.9 MILES AWAY

AIR FORCE INNS
USAF SERVICES

AREA ATTRACTIONS

Cumberland Caverns
32 miles of caves and underground passages, underground waterfalls, pools, and the world famous Bluegrass Underground. Yes! Concerts inside the caves! 931-668-4396
1437 Cumberland Caverns Rd, McMinnville, TN 37110

80.3 MILES AWAY

Fall Creek Falls
26,000 Acres of nature! Waterfalls, timber, boating, zip lining, horseback riding, and much more! 615-532-0001
2009 Village Camp Road, Spencer, TN 38585

82.5 MILES AWAY

Parthenon
The Parthenon in Nashville is a full scale replica of the original Parthenon in Athens. The Parthenon functions as an art museum! 615-862-8431
2500 W End Ave, Nashville, TN 37232

84.9 MILES AWAY

Cheekwood Botanical Garden
This 55 acre estate is flowing with wildflowers, ponds, and history. Tour the 30,000 square ft. Georgian-style mansion. 615-356-8000
1200 Forrest Park Dr. Nashville, TN 37205

85.2 MILES AWAY

The Lost Sea Adventure
Tour the caverns and hop aboard a glass bottom boat for an exciting trip on the lost sea! You will learn about the geological development of the caverns and see rare formations. 423-337-6616
140 Lost Sea Road, Sweetwater, TN 37874

143 MILES AWAY

All information in this book is subject to change.

AIR FORCE INNS
USAF SERVICES

AREA FESTIVALS

FEBRUARY

Monteagle Chamber of Commerce
Fog Festival
Monteagle, TN

MARCH

Annual Daffodil Days
Bell Buckle, TN

Middle TN Gospel Music Festival
Shelbyville, TN

APRIL

Oak Barrel & ½ Marathon Race
Lynchburg, TN

High on the Hog Festival
Winchester, TN

Spring in the Hollow
Lynchburg, TN

MAY

International Dogwood Festival
Winchester, TN

Mutts in May
Bell Buckle, TN

JUNE

Frontier Days
Lynchburg, TN

Bonnaroo Music and Arts Fest.
Manchester, TN

Arts Festival
Fayetteville, TN

Lynchburg Motorcycle Rally
Lynchburg, TN

RC Cola Moon Pie Festival and 10 mi. run
Bell Buckle, TN

JULY

Corvette Crusin'
Lynchburg, TN

AUGUST

Music by the Lake
Winchester, TN

Franklin County Fair
Winchester, TN

SEPTEMBER

Heritage Festival
Cowan, TN

AREA FESTIVALS

SEPTEMBER *cont.*

Best of the Butts BBQ Cook-off
Bell Buckle, TN

41A Music and Arts Festival
Tullahoma, TN

Plain Arts on the Square
Bell Buckle, TN

Coffee County Fair
Manchester, TN

OCTOBER

Granddaddy's Farm Corn Maze and More
Estill Springs, TN

Crusin' the Hollow
Lynchburg, TN

Jack Daniel's World Champ. BBQ
Lynchburg, TN

Old Timer's Day
Manchester, TN

Trail of Tears Memorial Walk
Fayetteville, TN

NOVEMBER

Foothills Arts and Crafts Festival
Manchester, TN

Annual HWY 41 Toy Convoy and Show
Manchester, TN

DECEMBER

Christmas in Lynchburg
Lynchburg, TN

TV INSTRUCTIONS

LG TV

To Watch DirecTV

To turn the LG TV on use the LG remote and press the RED On/Off button.

To turn on the DirecTV box us the DirecTV remote and press the On button.

To change the channel use the DirecTV remote press the channel up(+) or channel down (-) buttons.

To change the volume on the LG TV use the LG remote and press the volume up(+) and volume down(-) buttons.

If DirecTV is not showing when the TV is turned on

Use the LG remote press the channel up(+) or channel down (-) buttons **to change the channel to channel 3 or 4**

Samsung DVD Player with LG TV

To turn on the Samsung DVD player using the Samsung DVD remote press the On/Off button.

Use the LG TV remote and press the input button select AV press enter

Use the Samsung DVD remote to play the DVD.

AIR FORCE INNS
USAF SERVICES

Local Radio Stations

WDEF	92.3 FM	Chattanooga, TN	Adult Contemporary
WDUC	93.9 FM	Lynchburg, TN	Adult Contemporary
WSKZ	106.5 FM	Chattanooga, TN	Classic Rock
WSMC	90.5 FM	Collegedale, TN	Classical
WUUQ	97.3 FM	South Pittsburg, TN	Country
WUSY	100.7 FM	Cleveland, TN	Country
WOWC	105.3 FM	Morrison, TN	Country
WSM	650 AM	Nashville, TN	Country
WHMT	740 AM	Tullahoma, TN	Country
WLYJ	88.5 FM	Tullahoma, TN	Gospel Music
WFTZ	101.5 FM	Manchester, TN	Hot AC
WLRH	89.3 FM	Huntsville, AL	Public Radio
WTML	91.5 FM	Tullahoma, TN	Public Radio
WMBW	88.9 FM	Chattanooga, TN	Religious
WYBK	89.7 FM	Chattanooga, TN	Religious
WBUZ	102.9 FM	La Vergne, TN	Rock
WNSR	560 AM	Brentwood, TN	Sports
WWTN	99.7 FM	Hendersonville, TN	Talk
WMSR	107.9 FM	Manchester, TN	Variety
WMSR	1320 AM	Manchester, TN	Variety

What is AEDC?

The Air Engineering Development Center was authorized by an act of the 81st Congress, Public Law 415, approved Oct. 27, 1949. *(Appendix 2)*

On March 7, 1950, the Air Engineering Development Center was redesignated the Arnold Engineering Development Center (AEDC) effective Feb. 10, 1950, per General Order #23, signed by then-Chief of Staff of the Air Force, General Hoyt S. Vandenberg.

The center is a part of a master unitary wind tunnel plan that is designated to provide the testing "tools" required to assure the United States continued air and space supremacy.

The necessity for an aeronautical test center of this type was recognized by a number of different agencies of the government, as well as by expert technical groups from the industrial-scientific world. The creation of these research and testing facilities has enabled the U.S. to stay abreast of developments in this fast-moving field.

AEDC is the most advanced and largest complex of flight simulation test facilities in the world with a replacement value of more than $7.8 billion.

At one time or another, the center has operated 58 aerodynamic and propulsion wind tunnels, rocket and turbine engine test cells, space environmental chambers, arc heaters, ballistic ranges and other specialized units. Twenty-seven of the center's test units have capabilities unmatched elsewhere in the United States; 14 are unique in the world.

Facilities can simulate flight conditions from sea level to 300 miles altitude and from subsonic velocities to Mach 14.

AEDC's mission is to:

- Test and evaluate aircraft, missile and space systems and subsystems at the flight conditions they will experience during a mission to help customers develop and qualify the systems for flight, improve system designs and establish performance before production. It also helps users troubleshoot problems with operational systems.
- Conduct a research and technology program to develop advanced testing techniques and instrumentation and to support the design of new test facilities. Continuous improvement helps satisfy testing needs and keeps pace with rapidly advancing aircraft, missile and space system requirements.
- Maintain and modernize the center's existing test facilities.

AEDC is an important national resource and has contributed to the development of practically every one of the nation's top priority aerospace programs, including better spacelift, aircraft, missiles and satellites. Many of these programs are highlighted in the following sections.

AEDC is an Air Force Materiel Command (AFMC) organization managed by the Air Force but operated largely by a contractor work force. While AEDC's primary location is in Tennessee, it also operates two geographically separated facilities – the Hypervelocity Wind Tunnel 9 in Maryland, and the National Full-Scale Aerodynamics Complex (NFAC), in California.

AEDC's economic impact to the local area for fiscal year 2020 exceeded $680 million. The total economic impact includes the center's payroll, secondary jobs created locally though the spending of that payroll, and other expenditures for supplies, utilities, fuel and services and the spin-off impact of those purchases.

The History of AEDC

Amid the ashes of World War II, American scientists surveying German technology were disturbed to find a sophisticated network of flight simulation test facilities. It was a wake-up call for the future – a realization that the United States was years behind the Germans in the process of developing aerospace technology.

Fortunately, the Germans had developed these technologies too late to turn the tide of the war.

However, the discovery of these facilities confirmed the suspicions of General of the Air Force Henry H. "Hap" Arnold, commanding general of the Army Air Forces during World War II. Arnold had been preoccupied with the role of technology, research and development of air power even before the war.

General Arnold's Vision

When Hap Arnold visited England in the spring of 1941, he saw a British plane flying without a propeller. "Regardless of what anybody says, I want this for the U.S.," he said.

But American production lines were geared up trying to maintain the flow of military hardware to the Allies, and they had no quick way of restructuring their assembly lines for something as drastic as a new type of engine. Besides, Arnold didn't want to interrupt assembly of material he would need in the future. However, this wasn't enough to stop him when he had a hot project on his mind; he simply brought new people into the business.

He talked General Electric into manufacturing the British Whittle engine and began looking for someone to build the airframe. Since Bell Aircraft had no major contracts in the works, he convinced Larry Bell to take on the job.

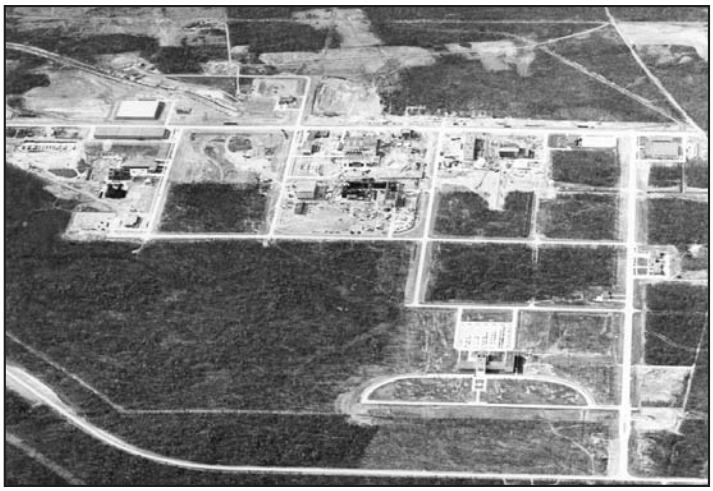
Around Oct. 1, 1942, the Bell XP-59A Airacomet made its first flight at Muroc Dry Lake (the current site of Edwards Air Force Base [AFB], California). The Army Air Corps had entered the jet age through Arnold's initiative.

Arnold was quick to grasp any new development, but he also realized that the production of new hardware required the establishment of research and development organizations, as well as new and better testing facilities. The most revealing account of Arnold's foresight is related by Dr. Theodore von Kármán in his autobiography, *"The Wind and Beyond."* Arnold had appointed von Kármán to be his special adviser at Wright Field, Ohio, in 1940.

According to von Kármán, Arnold met him in a staff car at New York's LaGuardia Airport in 1944 to discuss the future. Even at that time, the general knew the war was won, and his mind was already racing ahead in an attempt to determine future defense needs.

"General Arnold wasted no time in coming to the point," von Kármán wrote. 'We have won this war and I am no longer interested in it,' he said. 'I do not think we should spend time debating whether we obtained the victory by sheer power or by some qualitative superiority. Only one thing should concern us. What is the future of air power and aerial warfare? What is the bearing of the new inventions such as jet propulsion, rockets, radar and the other electronic devices?'

"I listened with fascination. I had always admired Arnold's great vision, but I think then that I was more impressed than ever. This was September 1944. The war



Top, Arnold Engineering Development Center (AEDC) as it appeared during its construction in the 1950s. Below, AEDC in 2008.

was not over; in fact, the Germans were to launch the Battle of the Bulge in December. Yet, Arnold was already casting his sights far beyond the war and realizing, as he always had, that the technical genius which could help find answers for him was not cooped up in military or civilian bureaucracy, but was to be found in universities and in the people at large.

"'What do you want me to do, General?' I said.

"'I want you to come to the Pentagon and gather a group of scientists who will work out a blueprint for air research for the next 20, 30, perhaps 50 years.'"

The Scientific Advisory Group

Arnold asked von Kármán to form an advisory group, responsible only to the Air Corps Chief, to provide recommendations on the direction aviation research should take. Arnold formalized this request in a letter to the group dated Nov. 7, 1944. In the letter, he specified four major questions the group was to answer:

1. What assistance should we give or ask from our educational and commercial scientific organizations during peacetime?

2. Is the time approaching when all our scientists and their organizations must give a small portion of their time and resources to assist in avoiding future national peril and winning the next war?

3. What are the best methods of instituting the pilot production of required non-revenue equipment of no commercial value developed exclusively for the post-war period?

4. What proportion of available money should be allocated to research and development?

Von Kármán sent a task force from his newly formed Scientific Advisory Group (SAG) to take a closer look at German test facilities. In May 1945, they followed their analyses with a trip to Germany, again at Arnold's insistence, to find out what testing and research facilities had been in operation.

On April 28, 1948, the Research and Development Board Committee approved the Camp Forrest site for AEDC and recommended the prompt initiation of construction.

Near the end of a rainy April in 1950, a photo was taken of the center's first commander, Maj. Gen. Frank Carroll, at the base stake for the construction grid. During a center tour some 15 years later, AEDC photographer Phil Tarver asked Gen. Carroll to strike the same pose – note the cigar – at the same location.

At Braunschweig, Munich, Goettingen, Kochel, Oetztal and other test centers in Germany they found facilities, rockets, aircraft and jet engines – all more advanced than what the Allies had even imagined. Dr. Frank Wattendorf was one of the American scientists who made the trek to Germany. He was responsible for surveying German wind tunnels and engine test facilities.

As one of von Kármán's associates during the survey of captured German test and research facilities, Wattendorf knew first hand the sad state of aeronautical research in the U.S. The Germans had far outclassed all of the Allied nations in ground testing, but the capture of these testing facilities would give the U.S. a big boost. In fact, it was just the solution Wattendorf needed to a problem presented to him by Brig. Gen. Franklin O. Carroll, commander of Wright Field's engineering division.

1945

A New Challenge

Carroll wasn't new to research and testing facilities. He graduated from the Massachusetts Institute of Technology (MIT) in 1921 – the first Air Service officer to be trained in aeronautical engineering. He had also commanded the engineering division at Wright Field for six years. In that capacity, he tried to persuade von Kármán to leave Washington, D.C., and work at Wright Field instead. Carroll was the kind of "doer" that Arnold liked to have around.

But he had one big headache at Wright Field – the limited space and available power in the Dayton area. New test facilities for testing jet engines would require more of both – more than he had available without drastically reshaping existing facilities. When Wattendorf reported to Carroll as a research adviser, he inherited the General's headache – how to fit new facilities into the existing space and power limitations. The trip to Europe with von Kármán opened new possibilities.

1950

1950

The Trans-Atlantic Memo

With the survey of German facilities completed,

The 1940s

November 1944 – General Arnold directs formation of the Scientific Advisory Group (SAG).

June 1945 – *Trans-Atlantic Memo* proposes the Air Engineering Development Center.

December 1945 – Dr. Theodore von Kármán's report *Toward New Horizons* lays the foundation for an Air Force research and development program.

March 1946 – Sverdrup & Parcel awarded contract to study possible sites for the Air Engineering Development Center.

September 1947 – The United States Air Force becomes a separate military service.

April 28, 1948 – The former Army training area Camp Forrest is named as the site for the Air Engineering Development Center.

1949 – Congress authorizes $100 million for the construction of the Air Engineering Development Center.

The 1950s

March 3, 1950 – The Secretary of Defense approves construction of the new facility.

June 2, 1950 – The Army Corps of Engineers begins construction on a perimeter fence and access road.

June 23, 1950 – Work begins on a dam on the Elk River to create a reservoir to provide cooling water for testing facilities.

June 29, 1950 – The Arnold Research Organization (ARO) is awarded a contract from the Air Force to operate AEDC for 15 months.

Left, President Harry S Truman dedicated AEDC June 25, 1951. Right, local residents braved Tennessee's June heat to attend the dedication of AEDC.

Wattendorf went to Paris to write up his findings. While there, he received word that his father had died, and he left on emergency leave aboard a C-54. It would be a long flight, which gave him a perfect opportunity to summarize his findings.

Wattendorf's report of June 19, 1945, became known as the *Trans-Atlantic Memo* and was to become the baseline for establishing a "new Air Forces development center."

The memo, given to Carroll through Col. Paul H. Kemmer, became the basis of Carroll's presentation to Arnold's Air Staff.

In his presentation, Carroll advised the Air Staff of the advancements in ground testing that the Germans had made and outlined the deficiencies in America's wind tunnels.

He noted that "no facilities exist [in the U.S.] for the testing of turbojet compressors." Carroll also listed what he felt were the necessary facilities for U.S. research and development, suggesting that the Air Technical Service Command be charged with making a preliminary study "for the establishment of a new Army Air Force's (AAF) Applied Research and Development Center for Fluid Dynamics."

Maj. Gen. E. M. Powers, assistant chief of staff, materiel and services, gave Carroll the green light to proceed on July 31, 1945.

On Oct. 5, Kemmer, Carroll's deputy, formed a committee to do the study. The Kemmer Committee's initial report was completed on Dec. 18 for submittal to Arnold, five days before *Toward New Horizons* was published.

Both reports recommended using captured German test facilities in a new installation located near large sources of water and electric power. They anticipated power requirements at more than one million horsepower – too great to be handled at Wright Field. Using the German equipment would save almost eight years in facility design and construction. The Kemmer Committee Report also asked for $300 million for purchase of the site and construction of housing, roads, utilities and the initial portion of the facility.

The report, "Proposed Air Engineering Development Center," was presented to the Air Staff Jan. 24, 1946. On March 21, Brig. Gen. H. I. Hodes, assistant chief of the War Department General Staff, authorized further planning on the proposed center, and Sverdrup & Parcel Inc. (S&P), a St. Louis engineering firm, was awarded a $1.5 million Army Air Forces contract to conduct the survey.

Site Selection Begins

S&P recommended, in order of preference: Moses Lake, Washington, Grand Wash Cliffs, Arizona, and the Tennessee Valley as possible sites for the new center. All three were considered acceptable because of power availability, low population density and room for growth.

Moses Lake was the first choice because the Air Force was closing a base there, and buildings and a runway were already in place. But the Air Force Chief of Staff didn't like the Moses Lake site because he felt it was too vulnerable to attack. Air Force Secretary Stuart Symington thereupon established a committee to look at the other choices.

A water dispute between Arizona and California knocked the Grand Wash Cliffs area out of contention, leaving only the Tennessee Valley to be considered. Huntsville, Alabama, emerged as the preferred site. The Tennessee River would provide ample water, and the Army was deactivating the Redstone Arsenal, which could be used to save time in constructing housing and offices. But when the Air Force started showing interest in Redstone, the Army quickly began to have second thoughts about closing it down.

It was then that Senator Kenneth McKellar of Tennessee made his big pitch: the state of Tennessee would donate Camp Forrest to the Air Force as the site for the Air Engineering Development Center. Not only

that, but he could also help push legislation through Congress. The Air Force couldn't resist. On April 28, 1948, the former Army training camp was named as the site for the Air Force's new Air Engineering Development Center.

1951

The Unitary Wind Tunnel and Air Engineering Development Act of 1949 set aside $100 million for construction of the new facility. The Secretary of Defense approved construction of AEDC on March 3, 1950, and three weeks later the Air Force awarded its first construction contract: cranes for the Engine Test Facility (ETF). The Army Corps of Engineers, which established a district office in Tullahoma on Nov. 14, 1949, awarded their first construction contract for a perimeter fence and an access road. This work began on June 2, 1950. Three weeks later the Corps awarded a contract to dam the Elk River for a reservoir to provide cooling water for the facilities.

Symington directed on March 29, 1950, that AEDC would be operated by a corporation under contract to the Air Force. Several meetings in early April between Air Force personnel and S&P established the Arnold Research Organization (ARO), Inc., a Tennessee corporation, for managing and operating AEDC on a cost-plus-fixed-fee contract. On June 29, the contract was signed in the amount of $694,174.50 to cover the first 15 months of operation.

HIGH MACH

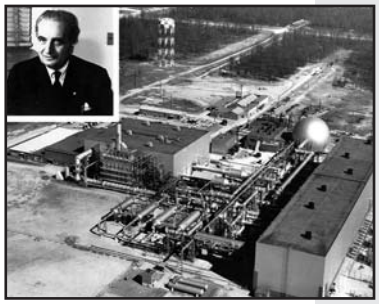
ETF Starts Tests In May

1954

Part of the government's rationale was to maintain a stable work force that would accumulate a volume of experience with the test facilities that were to be built. That idea would make the center a model of outsourcing for the Department of Defense (DoD) by the 1990s.

AEDC's Dedication

On June 25, 1951, a year after General Arnold's death, President Harry S Truman dedicated the Air Engineering Development Center in Arnold's memory, naming it the Arnold Engineering Development Center.



1959

"I am happy to dedicate this center to his memory and to name it the 'Arnold Engineering Development Center,'" the President said. "The scientists who work here will explore what lies on the other side of the speed of sound. This is part of our

June 25, 1951 – President Harry S Truman dedicates the facility in honor of five-star General of the Air Force Henry "Hap" Arnold, naming it the Arnold Engineering Development Center.

Oct. 21, 1952 – PeeWee, a one-foot wind tunnel built to identify problems in the 16-foot tunnels, goes into operation at AEDC.

1953 – Construction on the Engine Test Facility (ETF) is completed.

Sept. 9, 1953 – The Falcon guided missile is placed in the test section of tunnel E-1 and is tested at nearly five times the speed of sound.

1954 – The first engine, a J47 turbojet for the B-47 bomber, is tested at a simulated altitude of 30,000 feet.

April 1954 – The first issue of *High Mach*, the center's employee newspaper, is published.

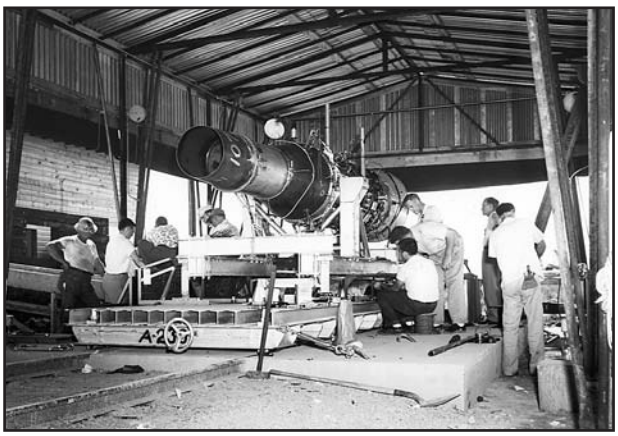
August 1954 – The Air Force executes another one-year contract, with a four-year option, with ARO.

March 27, 1957 – Escape velocity, the speed needed to leave Earth's gravity, is reached in the Gas Dynamics Facility's Hotshot 2 tunnel.

November 1957 – A jet engine is tested in the new Propulsion Wind Tunnel (PWT), validating the larger transonic wind tunnel design.

July 1959 – The supersonic circuit of the PWT facility is completed.

Oct. 30, 1959 – A facility designed for testing aerospace designs at high speeds is dedicated to Dr. Theodore von Kármán as the von Kármán Gas Dynamics facility.



The first jet engine test at AEDC's Engine Test Facility took place in 1953. The test required design and construction of a thrust stand for the J47 turbojet engine used in calibrating the center's T-1 high-altitude test cell.

The enormous size of the supersonic circuit compressor of the PWT facility is illustrated by the comparison of workmen standing below the 18-stage compressor. The supersonic circuit is designed to operate at speeds between Mach 1.5 and 4.5 with altitude simulation capability up to 200,000 feet. The compressor – 18 stages in all – is made up of four barrels, three of four stages each, and one of six stages. They can be operated as a unit or one at a time depending on the test conditions. Steel boxes on the walls contain fiberglass pillows for insulation to retain heat when temperature is a test condition.

effort to make our air power the best in the world and to keep it the best in the world."

The First Facilities

The remainder of the 1950s saw the development of three major test facilities that remain active today – the ETF, the von Kármán Gas Dynamics Facility (VKF) and the Propulsion Wind Tunnel (PWT) Facility.

Following Wattendorf's recommendations from six years earlier, the first jet engine test equipment installed at the center was acquired from the Bavarian Motor Works (BMW) in Munich, Germany. It took 58 railroad cars and

A cornerstone ceremony was held in the Tullahoma National Guard Armory in honor of the University of Tennessee Space Institute (UTSI). Various photographs and documents concerning the institute and its sponsors were sealed in a copper box that was placed beneath the cornerstone of the Gov. Frank G. Clement building on campus.

two barges plus another 450 tons by truck to move the equipment.

After refurbishment, this equipment became the cornerstone for the ETF, which was completed in 1953. By May 1954, the facility was put to work, testing the General Electric (GE) J47 engine for the B-47 bomber.

A flight dynamics facility for testing aerospace designs at high speeds was built and then dedicated to von Kármán in 1959. Operations began with a prototype test cell called E-1, which was used to test the Falcon guided missile.

Construction was completed on the PWT facility at the end of the 1950s. PWT's huge wind tunnels have become hallmarks of the center and are perhaps the most heavily used facilities on base.

Forming Academic Alliances

Before AEDC reached full operability, efforts were under way to affiliate the center with universities. The Industry and Educational Advisory Board, in meetings on May 11-12, 1951, considered drafts of a proposed contract with the University of Tennessee (UT) and recommended that a program be developed to provide qualified AEDC personnel university-level courses leading to advanced degrees in physical and engineering sciences and "instruction in such other fields as circumstances may justify."

On June 19, 1951, the Air Force awarded a letter contract to UT to study the board's recommendations. Under the direction of Dr. Wiley Thomas, UT completed the study and submitted a final report on Dec. 1, 1952. Included in this report was a recommendation by the Graduate Study Committee that a program of residence graduate courses

and degrees for AEDC employees be established. The study also recommended lecture and symposia programs to put center personnel in contact with leaders of aviation, industry and science. Most significantly, the UT study recommended that an Institute of Flight Science be established at AEDC. The institute should "engage the human and institutional resources of the entire free world and should foster especially close ties with neighboring southern educational institutions." The report noted that such an institute would be a "very natural extension of the proposed graduate degree program" and projected that it "might well develop in an organic way from these programs."

1960

The proposal rested on the expectation that activities of the institute would become a valuable factor in attracting and retaining the scientific personnel required for the full development of AEDC.

The UT program to award graduate degrees to engineers on staff of the Air Force and ARO at AEDC was approved in Washington, D.C., on May 3, 1956. Twenty-two master's degrees would be earned through the program over the next eight years at the University of Tennessee Space Institute (UTSI).

1961

The "Race to Space"

As the space race heated up, so did AEDC's workload. PWT was used to investigate configurations for the Mercury space capsule, which sent Alan Shepherd and John Glenn into space. The center was a key player in supporting Project Gemini, and the center played a multi-faceted role in supporting the Apollo Program, which put man on the moon. Apollo tests included aerodynamic assessments of the Apollo capsule and tests of Saturn V rocket upper-stage engines.

Some new test facilities came online during the 1960s that helped turn numerous aerospace system ideas into reality.

1965

The J-4 Large Rocket Engine Test Facility was dedicated in 1964. PWT got an addition in 1968 when the 4-foot transonic tunnel (4T) came on line. 4T was, and still is, used largely to test store separation.

The 1960s

1960 – Sverdrup and Parcel marks the 10th anniversary of the start of construction on the AEDC project.

1960 – ARO photographer Phil Tarver shoots the iconic wind tunnel photo.

July 1960 – The Air Force and ARO agree to a new contract for fiscal year 1961.

Jan. 13, 1961 – The supersonic circuit of PWT is accepted by the Air Force.

June 23, 1961 – Air Force Secretary Eugene Zuckert comes to AEDC to break ground for J-4, the world's largest rocket altitude cell.

Jan. 23, 1963 – Congress votes $944,000 for the construction of the J-5 rocket test facility.

Dec. 11, 1963 – The Air Force accepts both the J-4 and J-5 rocket test cells.

Dec. 19, 1963 – The first rocket engine – a Skybolt – is fired in J-5.

1964 – The J-4 Large Rocket Engine Test Facility is dedicated.

1965 – The University of Tennessee Space Institute (UTSI) is established.

1968 – A 4-foot transonic wind tunnel (4T) is added to the PWT facility.

May 9, 1969 – The McDonnell Douglas F-15 begins testing in the 16-foot supersonic wind tunnel.

Store separation testing evaluates how a weapon, fuel tank or other object will separate from an aircraft in flight at different air speeds and angles of flight.

With several test facilities running at full bore, the pace of testing increased exponentially. Among the systems tested during the decade were the F-105 Thunderchief, the C-141 Starlifter and C-5 Galaxy cargo planes, the E-3 Sentry, Airborne Warning and Control System (AWACS), the TF39 engine for the C-5, and the upper-stage rocket motors for the Minuteman Intercontinental Ballistic Missile (ICBM).

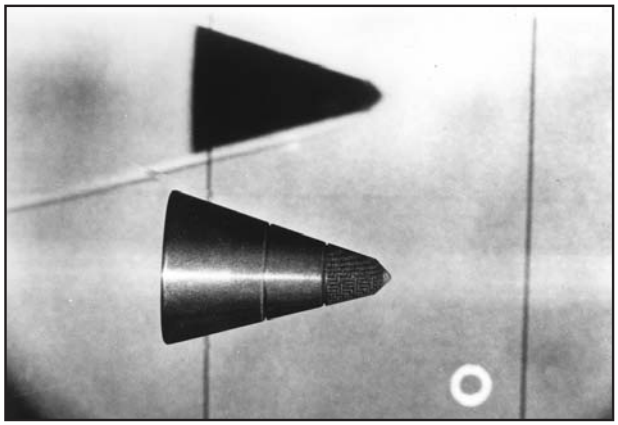
There came a natural turndown in the furious pace of aerospace activities after the moon landing and the end of the Vietnam War. But despite the turndown and a corresponding reduction by the government in funding for AEDC and in the number of center employees, the pace of testing held steady as nearly 3,000 test projects were completed in the decade. The list of systems tested during the decade reads like a who's who of aerospace. Included on that list are the Space Transportation System, which would later be called the space shuttle, the F-15 Eagle, F-16 Fighting Falcon, B-1 Lancer bomber, A-10 Thunderbolt II, Pratt & Whitney F100 engine, MX missile, Sidewinder missile, Navy Tomahawk Cruise Missile, Air Force Air-Launched Cruise Missile (ALCM) and the Global Positioning System (GPS).

AEDC developed Laser-Illuminated Photography during the 1970s to better study projectiles that would be traveling up to 20,000 mph in the center's ballistic ranges. This technique provided a photographic exposure equivalent to 20 billionths of a second.

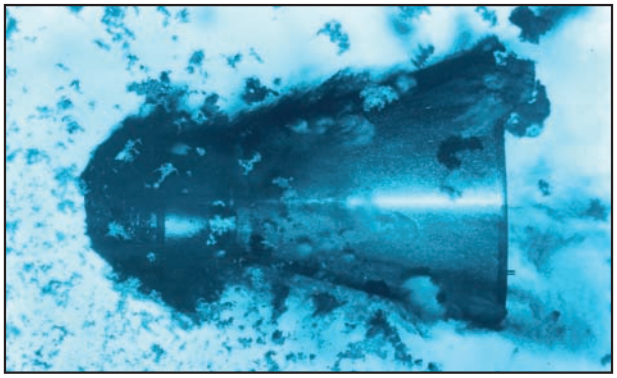
Also during the 1970s, NASA's emphasis shifted from deep-space exploration to near-Earth space operations and development of Skylab and the space shuttle. During that time AEDC evaluated various model configurations for the space shuttle program, obtaining data on heat transfer, as well as aerodynamic forces and pressures. These tests helped to determine the appropriate construction materials and establish baseline flight models for the ascent portion of the mission. The tests also included aerodynamic predictions for the two strap-on, solid-propellant boosters that separated from the shuttle after burnout.

AEDC has supported NASA throughout space shuttle operations, as required, to address potential operational scenarios and anomalies. During this time, wind tunnel tests assessed the effect of a space shuttle main engine failure during the initial stages of ascent.

A heritage of environmental stewardship and uniqueness was made official in 1976 when the Department of Interior registered AEDC as a unique natural area. The honor recognized AEDC's superior management of fish and wildlife resources, conservation practices and environmental achievement. And, in a decade when the nation turned energy conscious, AEDC helped explore alternative energy sources.



Laser-illuminated photography was developed at AEDC to study ablative effects on a 12,000 mph free-flight projectile in the center's 1,000-foot hypervelocity ballistic range. The technique provided a photographic exposure equivalent to 20 billionths of a second. This photo was taken in 1970.



Models carrying candidate materials for reentry vehicles can be launched free-flight at speeds up to 30,000 feet per second in hyperballistic ranges to determine the effects of reentry environment such as snow and other abrasive elements in the atmosphere on the materials.

A 750-ton magnet was used as part of a magneto-hydrodynamics (MHD) research demonstration at the center, under sponsorship of the Department of Energy. The demonstration assessed the effectiveness of using a large MHD generator to boost the efficiency of coal in producing electricity. AEDC later transferred the project to UTSI.

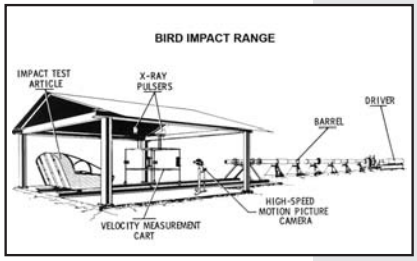
The decade also marked the beginning of the planning stages for the addition of the world's largest jet engine testing facility – the Aeropropulsion Systems Test Facility (ASTF) – to the center's collection of aerospace flight simulation test facilities.

Contractor Changes

In 1981, for the first time in the center's history, operations and support work was divided among multiple contractors. The workload was split into three contracts: support, propulsion testing and aerodynamics testing.

Pan Am World Services became the support contractor; Sverdrup Technology Inc. took over propulsion testing, and Calspan Corporation assumed responsibility for aerodynamics and space testing.

In 1985, Schneider Services International replaced Pan Am as the support contractor.



1972

A New War

The conflict in the Persian Gulf at the beginning of the 1990s became a defining event in late 20th century America. It also showed the world what AEDC had been doing in the 1980s. As people around the world watched from their living rooms, they saw the United States achieve an overwhelming victory in Desert Storm, and what they saw was the end product of what AEDC's people had been working on throughout the decade.

From the Patriot Air Defense Missile to the F-117A Nighthawk stealth fighter, AEDC's people worked on every high-performance aerospace system deployed to the Persian Gulf. It was the first time that technology showed up so dramatically in a real-world conflict, and it was a testament to the test and development work that Arnold, von Kármán and Wattendorf had planned for AEDC.

1984

The 1990s was a decade of change at AEDC. From opening its doors to commercial customers to "reengineering," the center's people explored new ways of doing business. Early in the decade, the center signed formal, long-term working alliances with a number of commercial aerospace organizations – Boeing, GE, Lockheed, McDonnell Douglas and Pratt & Whitney (P&W) – in hopes of steadying workload and offsetting dwindling defense budgets.

1993

Late in the decade, AEDC signed a 10-year contract with Space Systems Loral to test satellites and renovate the center's Mark I Space Environmental Chamber. That led to companies like Pratt & Whitney, Boeing and Loral bringing strictly commercial projects to AEDC. AEDC leaders began to emphasize strategic

The 1970s

April 1970 – ARO celebrates its 20 year anniversary.

1972 – A design contract is awarded for construction of the new Aeropropulsion Systems Test Facility (ASTF).

1972 – A launcher to determine the effect of impacts of birds on high-speed aircraft is developed.

1976 – The Department of Interior registers AEDC as a unique, natural area.

1977 – ARO is awarded a three year contract for operations at AEDC.

The 1980s

1981 – For the first time, multiple contractors begin performing work at AEDC.

1982 – Use of Computation Fluid Dynamics (CFD) begins.

Oct. 2, 1984 – Construction is completed on ASTF, the world's largest jet engine test facility.

Nov. 23, 1985 – An explosion during a test destroys the J-5 Rocket Test Facility. The facility is rebuilt a year later, ahead of schedule.

The 1990s

1992-3 – AEDC formalizes alliances with a number of commercial aerospace organizations.

1993 – The first large commercial engine test takes place.

1994 – The J-6 Large Rocket Test Facility is completed.

management, meeting in focus groups to consider the long-term health of the center and to formulate ways to make the future brighter. An outgrowth was the process termed "reengineering" that sought to streamline operations and standardize maintenance activities.

The 1990s also saw AEDC break new ground on the computational front. Computational Fluid Dynamics (CFD), using computers to simulate flight, saw an ever-increasing role in the scope of many major test programs. Using CFD and traditional ground testing together helped to hold down costs and provide data needed by test customers.

In 1998, the center was designated one of the DoD's High-Performance Computing Centers, making funding available to augment the center's supercomputing capability. This designation made AEDC the ninth largest high-performance computing center in the DoD.

The Navy docked at AEDC when its engine test facilities at Trenton, New Jersey, were transferred to AEDC as part of DoD consolidation under the 1995 Base Realignment and Closure Act (BRAC). The move added four engine test facilities (SL-2, SL-3, T-11 and T-12) and about 10 Navy people to AEDC.

Later in the decade, Oct. 1, 1997, AEDC assumed management of the former Naval Surface Warfare Center Hypervelocity Wind Tunnel 9 at White Oak in Silver Spring, Maryland, also as a part of BRAC.

Facilities that came online during the 1990s paved the way for new and continued testing on advanced systems. These facilities were the new Large Rocket Motor Test Facility J-6 – the world's largest altitude solid rocket motor test facility – and Decade, a nuclear weapons effects facility.

Among facilities that saw significant modernization were the J-4 Liquid Rocket Engine Test Facility, the Aerodynamic and Propulsion Test Unit (APTU), the Mark I Space Environmental Chamber and the ETF. The PWT complex also saw a major $80 million sustainment program begin.

A number of major aerospace programs began testing at AEDC in the 1990s. Those included the F-22A Raptor and both Joint Strike Fighter (JSF) competitive prototypes, which had been undergoing test flights at Edwards AFB. The P&W F119 engine, the Raptor's power plant, met Initial Service Release (ISR) qualifications in 2000. The JSF variant of the F119, which became the F135, underwent further testing. The Navy's newest strike fighter/attack aircraft, the F/A-18 E/F Super Hornet, continued to undergo testing in the center's wind tunnels. Also completed in 2000 were store separation tests on the Air Force's B-2 Spirit bomber.

In the commercial arena, P&W continued testing on its 4000 series engines for the Boeing 777. Boeing tested aerodynamic models of the 747, 767 and 777 as well as the RL-10 rocket engine. Other millennium milestones for the center included adding cold X-ray test capabilities to Decade, conducting the first Electric Propulsion Thruster firing in an upgraded 12V Space Chamber and completing the first test in VKF's 70-foot sphere. A new record was set in G-Range on projectile weight and speed, and a new missile interceptor test capability was developed.

A British A300-B2 Airbus model undergoes wind tunnel testing and evaluation in 16T in 1996.

Contract Consolidation

The center's outsourced workload was consolidated into two contracts – test and support – in 1995, with Sverdrup Technology Inc., as test support contractor and ACS, a joint venture of Computer Sciences Corp. (CSC), DynCorp and General Physics, as center support contractor. In 2000, the Air Force exercised both prime contractors' three-year extension options, giving both ACS and Sverdrup three more years at AEDC.

The center also inked agreements with NASA's Marshall Space Flight Center (MSFC) and the Oak Ridge National Labs and reaffirmed and formalized close educational ties with UTSI, Motlow State Community College, Middle Tennessee State University (MTSU) and Vanderbilt University. Cooperative Research and Development Agreements (CRDA) were signed in 2001 with Micro Craft, a division of Allied Aerospace Industries, Inc., and Engineering Design and Analysis Solutions, Inc.

In the summer of 2003, after an 18-month source selection process, AEDC awarded a single contract valued at up to $2.7 billion to Aerospace Testing Alliance (ATA) for the operation, maintenance, information management and support of center test facilities beginning Oct. 1, 2003. ATA is a joint venture of Jacobs Sverdrup, CSC and General Physics Corp.

The new contract was a cost-plus-award-fee

performance-based services contract with one-year options that may be exercised by the Air Force through Sept. 30, 2015.

Looking Toward the Future

1997

As America worked to get back into space following the *Columbia* accident in 2003, AEDC supported several aspects of the space shuttle "return-to-flight" program to flight-qualify the redesign of the bipod fixture that connects the liquid fuel tank to the shuttle.

Arnold employees designed and fabricated full-scale calibration models of the original and redesigned components and a 30-percent scale model of the redesigned area. Tests conducted in 4T, Tunnel A and Tunnel C greatly expanded NASA's database of localized thermal and pressure measurements in the bipod region and improved their CFD data.

In March 2006, AEDC assumed responsibility to operate the National Full-Scale Aerodynamics Complex (NFAC) located at Moffett Field, California, under a lease from NASA. This facility, with a staff of about 35, has the distinction of being the world's largest wind tunnel.

A New Century

In the fall of 2007, AEDC conducted the first ground testing of the GE F101 engine using a 50-50 mix of Fischer-Tropsch (FT) synthetic and JP-8 jet fuels. AEDC took an active role in supporting the Air Force's evaluation and certification of alternative fuel. The FT process for synthesizing fuel could decrease the nation's dependence on foreign oil. Furthermore, some tests have shown that FT-blended reduces smoke and particulate emissions.

2007

AEDC is as dedicated to supporting the development and sustainment of America's defense and commercial aerospace systems in the 21st century as it was in the last half of the 20th century. Thus, General Arnold's vision that America should always lead in flight technologyremains as vibrant as ever.

The AEDC complex has come a long way since Aug. 11, 1950, when 58 freight train cars arrived in Tullahoma loaded with captured equipment used by Nazi Germany to test their first jet engines.

America is an aerospace nation. Air and space systems protect our freedoms, and commercial aircraft and jet engines are one of America's biggest exports. AEDC plays an integral role in keeping America on the cutting edge of technology. The center is vital to the nation's defense, playing a key role in the development of nearly every high-performance flight system in use by today's Air Force, Navy, Army and Marines.

Oct. 1, 1995 – Sverdrup Technology and Aerospace Center Support (ACS) begin their five-year contract with AEDC.

1996 – The Decade facility is completed.

Oct. 1, 1997 – AEDC assumes management of the Hypervelocity Wind Tunnel 9 in Silver Spring, Maryland.

1998 – AEDC is named one the DoD's High-Performance Computing Centers.

The 2000s

2000 – Mark I is renovated

June 25, 2001 – Rededication of the center marks its 50th anniversary

Oct. 1, 2003 – Aerospace Testing Alliance (ATA), a joint venture between Jacobs Sverdrup, Computer Sciences Corporation and General Physics, begins a 12-year contract as the center's single contractor.

2006 – AEDC assumes control of the NFAC, located at NASA's Ames Research Center, California.

Jan. 26, 2007 – Arnold AFB receives the 2006 DoD Gen. Thomas D. White Environmental Award for Natural Resources Conservation.

June 25, 2007 – AEDC commemorates its designation as an American Institute of Aeronautics and Astronautics (AIAA) historic site.

April 7, 2008 – NFAC tests new helicopter rotor system, marking first military test since facility reactivation.

Oct. 24, 2008 – Air Force awards $26.1 million contract to produce the Space Threat Assessment Testbed ground test capability at AEDC.

Nov. 21, 2008 – AEDC and Pratt & Whitney celebrate 50-year partnership.

March 6, 2009 – The 100th rocket motor is fired in J-6.

BIOGRAPHY

UNITED STATES AIR FORCE

COLONEL JEFFREY T. GERAGHTY

Colonel Jeff Geraghty is commander of the Arnold Engineering Development Complex, headquartered at Arnold Air Force Base, Tenn. The Complex employs more than 3,000 people and comprises more than 68 aerospace test facilities across eight states. With facilities at Arnold Air Force Base in middle Tennessee, with operating locations at Ames Research Center, Mountain View and Edwards AFB, California; Peterson AFB, Colorado; Eglin AFB, Florida; the Federal Research Center at White Oak, Maryland; Holloman AFB, Kirtland AFB, and White Sands Missile Range, New Mexico; Wright-Patterson AFB, Ohio, and Hill AFB, Utah, AEDC offers a suite of test capabilities to simulate speed, temperature, pressure and other parameters over a wide range to meet the needs of aerospace system developers. The test facilities simulate flight from subsonic to hypersonic speeds at altitudes from sea level to space.

Prior to this assignment Col. Geraghty was commander of the 645th Aeronautical Systems Group (645 AESG).

Col Geraghty served as an F-15E pilot in Operations Northern Watch, Enduring Freedom, and Iraqi Freedom, an F-15/F-16 test pilot, a staff officer in numerous agencies, and a program manager. He also served as a Secretary of Defense Corporate Fellow at Space Exploration Technologies (SpaceX) in Hawthorne, Calif

ASSIGNMENTS

1. Aug 1997 – Jul 1998, Graduate Student, Pennsylvania State University, Penn.
2. Aug 1998 – Oct 1999, Student Pilot, JSUPT, Vance AFB, Okla.
3. Oct 1999 – Nov 2000, F-15E Student, Seymour Johnson AFB, N.C.
4. Nov 2000 – Mar 2003, F-15E Pilot, Scheduling and Weapons Officer, 492d Fighter Sq, RAF Lakenheath, UK
5. Mar 2003 – Dec 2004, Air Force Intern (NASA, OSD, AF/XOOO, HAF/CX), Pentagon, Va.
6. Jan 2005 – Jun 2006, F-15E Pilot, Chief of Sched, Asst Dir of Ops, 336th Fighter Sq, Seymour Johnson AFB, N.C.
7. Jun 2006 – Jun 2007, Student Test Pilot, USAF Test Pilot School, Edwards AFB, Calif.
8. Jun 2007 – Jun 2009, F-15 & F-16 Test Pilot, Flt/CC, Weapons Officer, 40th Flight Test Squadron, Eglin AFB, Fla.
9. Jun 2009 – Jun 2010, Student, School of Advanced Air and Space Studies, Maxwell AFB, Ala.
10. Jun 2010 – Jan 2012, Deputy Chief of Strategic Engagement, AF/A8XS, Pentagon, Va.
11. Jan 2012 – Jun 2014, Current Requirements Lead, F-35 JPO/ASR, Arlington, Va.
12. Jun 2014 – Jun 2015, Commander, 412th Operations Support Squadron, Edwards AFB, Calif.
13. Jun 2015 – Jun 2016, Secretary of Defense Corporate Fellow at SpaceX, Hawthorne, Calif.
14. Jun 2016 – Jun 2019, Commander, 645th Aeronautical Systems Group, Wright-Patterson AFB, Ohio
15. Jun 2019 – Present, Commander, Arnold Engineering Development Complex, Arnold AFB, Tenn.

EDUCATION
1997 Bachelor of Science in Biology, United States Air Force Academy, Colo.
1998 Master of Science in Genetics, Pennsylvania State University, Penn.
2003 Squadron Officer School, Maxwell Air Force Base, Ala.
2004 Congressional Operations Seminar for NASA, Georgetown University, Washington, DC
2006 Air Command and Staff College (correspondence)
2007 Master of Flight Test Engineering, USAF Test Pilot School, Edwards AFB, Calif.
2010 Master of Military Arts and Sciences, School of Advanced Air and Space Studies, Maxwell AFB, Ala.
2011 Air War College (correspondence)
2011 Defense Advanced Research Projects Agency (DARPA) Service Chiefs' Fellow, Arlington, Va.
2013 Doctor of Philosophy (PhD), Strategy, Air University, Maxwell AFB, Ala.
2014 Program Managers Course PMT 401, Defense Acquisitions University, Fort Belvoir, Va.

FLIGHT INFORMATION
Rating: Senior Pilot
Flight hours: 1750 Combat hours: 290
Aircraft flown: F-15C-E, F-16A-D, Mirage-2000, F/A-18, F-4, MiG-15, TH-57, D-140, Dauphin, CES-310, Alphajet, UH-1, A-10, T-6, T-6II, AN-2, T-38A-C, HH-60, G-103, TG-9-10, P-3, Goodyear Blimp, T-1, LJ-24, T-43, C-12, T-37, KC-135

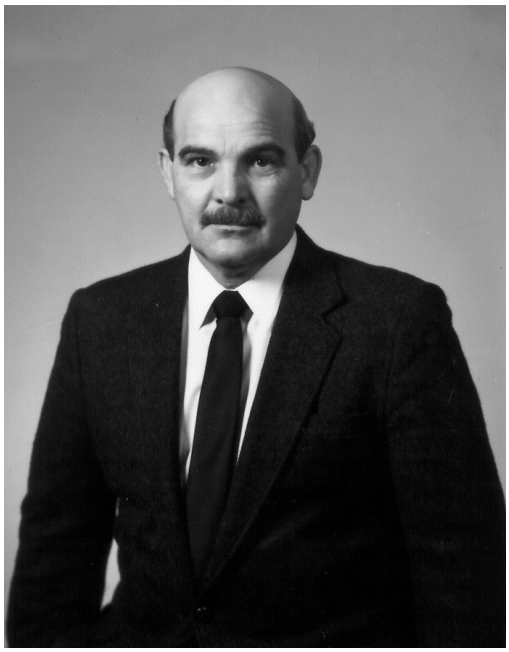
MAJOR AWARDS AND DECORATIONS
Defense Meritorious Service Medal Meritorious Service Medal with oak leaf cluster Air Medal with oak leaf cluster
Aerial Achievement Medal with oak leaf cluster Air Force Commendation Medal

EFFECTIVE DATES OF PROMOTION
Second Lieutenant, 28 May 1997
First Lieutenant, 28 May 1999
Captain, 28 May 2001
Major, 1 Nov 2006
Lieutenant Colonel, 1 Dec 2011
Colonel, 1 May 2016

(Current as of June 2019)

BIOGRAPHY

Darrell Zachari Wingo



Darrell Zachari Wingo (D. Z.) was born on 31 July 1941 in Bremen, Georgia and entered military service on 26 July 1960. He arrived at Arnold Engineering Development Center (AEDC) in May 1973 as Club Steward of the NCO Open Mess. In January 1974 he became the NCO Assistant Secretary; NCO Assistant Club Manager in September; and NCO Club Manager in December of that same year. December 1975 began his 20 -year association with the Inn as the Non-Commissioned Officer in Charge (NCOIC), Housing Services.

He retired from the Air Force in 1981, after a 21-year career, and began a second career in civil service as a clerk in the billeting office. He soon was named housing officer in charge of family housing and manager of the Forest Inn. At the time of his death in May 1995, he held the post of recreation and military support chief.

Mr. Wingo distinguished himself as the Forest Inn Manager and Chief, Military Family Housing. Under his direction AEDC received the following honors:

- Air Force Innkeepers Award (Small Category)
- Air Force Systems Command Innkeeper Award
- Military Family Housing Award

In 1990 Mr. Wingo was awarded the top Air Force honor when he was named the Air Force's Outstanding Services Civilian Supervisor of the Year.

As general manager of the Forest Inn, he was awarded the 1993 Certified Hotel Administrator designation by the Educational Institute of the American Hotel and Motel Association, one of the highest designations offered by the institute. To qualify for this distinction, hotel and motel executives must demonstrate academic and industry achievement.

He was recognized throughout the worldwide Air Force community for his expertise and superior achievement in his field. Darrell Zachari Wingo was the master architect behind many efforts, which have resulted in one of the finest inns in the Air Force.

To honor the memory of this exemplary manager, colleague, and friend, the Forest Inn was renamed Wingo Inn in a special dedication ceremony held in April of 1998.