

811428 Trebišov-Zemplínske Jastrabie-Brehov-Oborín-Vojany-Veľké Kapušany

Prepravu zabezpečuje:ARRIVA Michalovce a.s.,Michalovce,Lastomírská 1,tel.č.Info : 0915733733 (spoje:23,25,28,32,37-40,55-58,86,89-106)

ARRIVA Michalovce a.s.,DZ Trebišov,Trebišov,Dopravná 3,tel.č.Info : 0915733733 (spoje:2-22,24,26-27,30,33-35,42-53,66,88,108-208)

| km | Tč | ARRIVA Michalovce a.s.,DZ Trebišov | 55 | 23 | 103 | 7 | 91 | 9 | 11 | 13 | 15 | 17 | 27 | 33 | 53 | 57 | 25 | 19 | 101 | 5 | 89 | 99 | 37 | 35 |
|----|----|------------------------------------|----|----|-----|---|----|---|----|----|----|----|----|----|----|----|----|----|-----|---|----|----|----|----|
| 0 | 00 | 1 od | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 00 | Trebišov,AS | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 00 | Trebišov,Dom nábyt. | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 00 | Trebišov,OU | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 00 | Trebišov,nemocnica | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 00 | Trebišov,pekár. | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 00 | Z Hradiste,rázc. | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 10 | Kozuchov,Ob.úr. | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 12 | Zempl.Branc,1 | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 15 | Novosad,116 | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 15 | Novosad,nák.stred | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 15 | Novosad,116 | | | | | | | | | | | | | | | | | | | | | | |
| | | Kašov | | | | | | | | | | | | | | | | | | | | | | |
| | | Novosad,116 | | | | | | | | | | | | | | | | | | | | | | |
| | | Hran,DPL,r. | | | | | | | | | | | | | | | | | | | | | | |
| | | Hran,146 | | | | | | | | | | | | | | | | | | | | | | |
| | | Hran,241 | | | | | | | | | | | | | | | | | | | | | | |
| | | Simik,č.d.115 | | | | | | | | | | | | | | | | | | | | | | |
| | | Simik,Stred.obce | | | | | | | | | | | | | | | | | | | | | | |
| | | Brehov,r.Bin | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 10 | Z.Jastrabie,186 | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 10 | Z.Jastrabie,OU | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 10 | Z.Jastrabie,Jedn | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 10 | Z.Jastrabie,OU | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 10 | Z.Jastrabie,186 | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 23 | Cejkov,č.365 | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 23 | Cejkov,Jedn | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 23 | Cejkov,č.263 | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 23 | Cejkov,č.d.307 | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 28 | Cejkov,č.365 | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 28 | Brehov,č.d.187 | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 28 | Brehov,r.Bin | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 28 | Brehov,kult.dom | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 28 | Brehov,r.Bin | | | | | | | | | | | | | | | | | | | | | | |
| 33 | 31 | Petrikovce,16 | | | | | | | | | | | | | | | | | | | | | | |
| 39 | 35 | Oborín,Kučany | | | | | | | | | | | | | | | | | | | | | | |
| 41 | 39 | Oborín,PD | | | | | | | | | | | | | | | | | | | | | | |
| 41 | 39 | Malčice,139 | | | | | | | | | | | | | | | | | | | | | | |
| 41 | 39 | Oborín,Centrum | | | | | | | | | | | | | | | | | | | | | | |
| 41 | 39 | Z.Kopčany,58 | | | | | | | | | | | | | | | | | | | | | | |
| 44 | 42 | M.Raskovce,MS | | | | | | | | | | | | | | | | | | | | | | |
| 44 | 42 | Veľ.Raskovce,Jedn. | | | | | | | | | | | | | | | | | | | | | | |
| 44 | 42 | Veľ.Raskovce,2 | | | | | | | | | | | | | | | | | | | | | | |
| 49 | 47 | Drahňov,rázc. | | | | | | | | | | | | | | | | | | | | | | |
| 51 | 46 | Drahňov,21 | | | | | | | | | | | | | | | | | | | | | | |
| 51 | 46 | Drahňov,89 | | | | | | | | | | | | | | | | | | | | | | |
| 52 | 50 | Drahňov,89 | | | | | | | | | | | | | | | | | | | | | | |
| | | Stretavka,osad | | | | | | | | | | | | | | | | | | | | | | |
| | | Stretavka,most | | | | | | | | | | | | | | | | | | | | | | |
| | | Stretavka,52 | | | | | | | | | | | | | | | | | | | | | | |
| | | Stretava,173 | | | | | | | | | | | | | | | | | | | | | | |
| | | Stretava,194 | | | | | | | | | | | | | | | | | | | | | | |
| | | Stretava,Jedn. | | | | | | | | | | | | | | | | | | | | | | |
| | | Stretava,ZPS | | | | | | | | | | | | | | | | | | | | | | |
| | | Pavlovce n/Uh.,bažan | | | | | | | | | | | | | | | | | | | | | | |
| | | Pavlovce n/Uh.,122 | | | | | | | | | | | | | | | | | | | | | | |
| | | Pavlovce n/Uh.,72 | | | | | | | | | | | | | | | | | | | | | | |
| | | Pavlovce n/Uh,aut.st | | | | | | | | | | | | | | | | | | | | | | |
| | | Pavlovce n/U,Arvay | | | | | | | | | | | | | | | | | | | | | | |
| | | Pavlovce n/U,Tab.ZDA | | | | | | | | | | | | | | | | | | | | | | |
| | | Cierne Pole,36 | | | | | | | | | | | | | | | | | | | | | | |
| | | Cierne Pole,Jedn. | | | | | | | | | | | | | | | | | | | | | | |
| 62 | 72 | Veľké Kapušany,žel. | | | | | | | | | | | | | | | | | | | | | | |
| 62 | 72 | Veľ.Kapušany,Centr | | | | | | | | | | | | | | | | | | | | | | |
| 62 | 72 | Veľ.Kap. ZS POH | | | | | | | | | | | | | | | | | | | | | | |
| 62 | 72 | Veľ.Kapušany,gym | | | | | | | | | | | | | | | | | | | | | | |
| 62 | 72 | Veľ.Kapušany,AS | | | | | | | | | | | | | | | | | | | | | | |

10-premáva v pracovné dni počas škôl, vyučovania

11-premáva v pracovné dni počas školských prázdnin

24-nepremáva : 24.,25.12., 31.12. a 31.3.

22-nepremáva 31.12.

▲-na spoj 5 nadväzuje spoj 811428/34 na zastávke Brehov,rázc.Biňov

△-spoj 34 čaká na príchod spoja 811428/5 na zastávke Brehov,rázc.Biňov najviac 2 min.

M-spoj 4 pokračuje na 807411/22 Michalovce Terminál

M-spoj 26 pokračuje na 811416/55 Košice, AS

M-spoj 55 pokračuje na 811429/28 Oborín, Centrum

M-spoj 98 pokračuje na 811410/19 Košice, AS

M-spoj 100 pokračuje na 807417/32 Michalovce Terminál

M-spoj 208 pokračuje na 811402/74 Trebišov, AS

811428 Trebišov-Zemplínske Jastrabie-Brehov-Oborín-Vojany-Veľké Kapušany

| opačný smer | | ARRIVA Michalovce a.s.,DZ Trebišov | 102 | 22 | 100 | 2 | 92 | 4 | 98 | 28 | 10 | 66 | 106 | 108 | 24 |
|-------------|----|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|
| km | Tč | | | | | | | | | | | | | | |
| 0 | 0 | od Veľ. Kapušany,AS | 330 | | 435 | 437 | 444 | | | | 550 | | 555 | 610 | |
| 0 | 0 | Veľ. Kapušany,ovym | | | | | | | | | | | | | |
| 0 | 0 | Veľ. Kap. ZS POH | | | | | | | | | | | | | |
| 0 | 0 | Veľ. Kapušany, Centr | 332 | | 437 | 439 | 446 | | | | 552 | | 557 | 612 | |
| 0 | 0 | Veľke Kapušany, zel. | 334 | | 439 | 441 | 448 | | | | 554 | | 559 | 614 | |
| | | Cierne Pole, Jedn. | | | | | | | | | | | | | |
| | | Cierne Pole, 36 | | | | | | | | | | | | | |
| | | Pavlovce n/U, Tah.ZDA | | | | | | | | | | | | | |
| | | Pavlovce n/U, Arvay | | | | | | | | | | | | | |
| | | Pavlovce n/Uh, aut.st | | | | | | | | | | | | | |
| | | Pavlovce n/Uh, 72 | | | | | | | | | | | | | |
| | | Pavlovce n/Uh, 122 | | | | | | | | | | | | | |
| | | Pavlovce n/Uh, bažan | | | | | | | | | | | | | |
| | | Stretava, ZPS | | | | | | | | | | | | | |
| | | Stretava, Jedn. | | | | | | | | | | | | | |
| | | Stretava, 194 | | | | | | | | | | | | | |
| | | Stretava, 173 | | | | | | | | | | | | | |
| | | Stretavka, 52 | | | | | | | | | | | | | |
| | | Stretavka, most | | | | | | | | | | | | | |
| | | Stretavka, osad | | | | | | | | | | | | | |
| 10 | 22 | Drahňov, 89 | 348 | | 500 | 502 | 502 | | | | 615 | | 620 | 635 | |
| 11 | 23 | Drahňov, 211 | 349 | | 501 | 503 | 503 | | | | 616 | | 621 | 636 | |
| 11 | 23 | Drahňov, 21 | 350 | | 502 | 504 | 504 | | | | 617 | | 622 | 637 | |
| 13 | 25 | Drahňov, 22 | 353 | | 505 | 507 | 507 | | | | 620 | | 625 | 640 | |
| 13 | 25 | Drahňov, rázč. | 356 | | 510 | 511 | 510 | | | | 623 | | 629 | 644 | |
| 18 | 30 | Veľ. Raškovec, 2 | 357 | | | 512 | 511 | | | 550 | 624 | | 630 | | |
| 18 | 30 | Veľ. Raškovec, Jedn. | | | | | | | | | | | | | |
| | | M. Raškovec, MS | | | | | | | | | | | | | |
| | | Z. Kopčany, 58 | | | | 514 | 513 | | | 552 | 627 | | 632 | | |
| 21 | 33 | Oborín, Centrum | | | | 515 | 514 | | | | 629 | | 633 | | |
| | | Malčice, 139 | | | | 516 | 516 | | | | | | 635 | | |
| 23 | 35 | Oborín, PD | | | | | | | | | | | 638 | | |
| | | Oborín, Kucany | | | | | | | | | | | | | |
| | | Petrikovce, 16 | | | | | | | | | | | | | |
| | | Brehov, r.Bin. | | 440 | | | | 6+ | | | | 20 | | | |
| | | Brehov, kult. dom | | 445 | | | | M | | | | 6 | | | |
| | | Brehov, r.Bin. | | | | | | 445 | | 523 | | | 632 | | |
| | | Brehov, č.d. 187 | | 447 | | | | 447 | | 524 | | | 634 | | |
| | | Cejkov, č. 365 | | | | | | | | | | | 639 | | |
| | | Cejkov, č. d. 307 | | 455 | | | | | | | | | | | |
| | | Cejkov, č. 263 | | 456 | | | | 454 | | | | | | | |
| | | Cejkov, Jedn. | | 457 | | | | 456 | | | | | | | |
| | | Cejkov, č. 365 | | 458 | | | | 457 | 529 | | | | 640 | | |
| | | Z. Jastrabie, 186 | | | | | | 458 | | | | | 641 | | |
| | | Z. Jastrabie, OU | | | | | | | | | | | | | |
| | | Z. Jastrabie, Jedn. | | 502 | | | | | | | | | 647 | | |
| | | Z. Jastrabie, OU | | 503 | | | | | | | | | 648 | | |
| | | Z. Jastrabie, 186 | | 505 | | | | 501 | | | | | 649 | | |
| | | Brehov, r.Bin. | | | | 522 | 525 | 502 | | | | | 652 | | |
| | | Simík, Stred obce | | | | 524 | 527 | 503 | | | | | 655 | | |
| | | Simík, č.d. 115 | | | | 525 | 528 | | | | | | 656 | | |
| | | Hran, 241 | | | | 527 | 531 | | | | | | 659 | | |
| | | Hran, 146 | | | | 530 | 532 | | | | | | 702 | | |
| | | Hran, DPL r. | | | | 532 | 533 | | | | | | 704 | | |
| | | Novosad, 116 | | | | | | | | | | | | | |
| | | Kašov | | | | | | | | | | | | | |
| | | Novosad, 116 | | 509 | | | | | | | | | | | |
| | | Novosad, nak. stred | | 511 | | 536 | 537 | | | | | | 710 | | 707 |
| | | Novosad, 116 | | | | | | | | | | | | | |
| 41 | 53 | Zempl. Branc, 1 | | 514 | | 539 | 540 | | | | | | 713 | | 711 |
| 44 | 55 | Kozuchov, Ob.úr. | | 517 | | 542 | 543 | | | | | | 717 | | 714 |
| 46 | 55 | Z. Hradište, rázč. | | 520 | | 544 | 545 | | | | | | 720 | | 717 |
| 46 | 55 | Trebišov, pekar. | | 523 | | 547 | 549 | | | | | | 723 | | 724 |
| 46 | 55 | Trebišov, nemocnica | | 525 | | 548 | 551 | | | | | | | | |
| 46 | 55 | Trebišov, OU | | 527 | | 550 | 552 | | | | | | | | |
| 46 | 55 | Trebišov, Dom nábyt. | | 530 | | 552 | 553 | | | | 702 | | 725 | | 726 |
| 46 | 55 | Trebišov, AS | | 533 | | 555 | 555 | | | | 705 | | 726 | | 728 |
| | | | | | | | | | | | 708 | | 728 | | 730 |

811428 Trebišov-Zemplínske Jastrabie-Brehov-Oborín-Vojany-Veľké Kapušany

opačný smer pokračovanie

| km | Tč | ARRIVA Michalovce a.s.,DZ Trebišov | 14 | 16 | 86 | 18 | 42 | 26 | 30 | 88 | 32 | 208 | 58 | 34 | 104 | 40 |
|----|----|------------------------------------|-----|------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 0 | 0 | od Veľ. Kapušany,AS | 725 | 925 | 1140 | 1145 | 1225 | 1350 | 1450 | 1520 | 1520 | | 1610 | 1620 | 1700 | 1810 |
| 0 | 0 | Veľ. Kapušany,ovm | | | | | | | | | | | | | | |
| 0 | 0 | Veľ. Kap. ZS POH | | | | | | | | | | | | | | |
| 0 | 0 | Veľ. Kapušany, Centr | 727 | 927 | 1142 | 1147 | 1227 | 1352 | 1452 | 1522 | 1522 | | 1612 | 1622 | 1702 | 1812 |
| 0 | 0 | Veľke Kapušany, zel. | 729 | 929 | 1144 | 1149 | 1229 | 1354 | 1454 | 1524 | 1524 | | 1614 | 1624 | 1704 | 1814 |
| | | Cierne Pole, Jedn. | | | | | | | | | | | | | | |
| | | Cierne Pole, 36 | | | | | | | | | | | | | | |
| | | Pavlovce n/U, Tah.ZDA | | | | | | | | | | | | | | |
| | | Pavlovce n/U, Arvay | | | | | | | | | | | | | | |
| | | Pavlovce n/Uh, aut.st | | | | | | | | | | | | | | |
| | | Pavlovce n/Uh, 72 | | | | | | | | | | | | | | |
| | | Pavlovce n/Uh, 122 | | | | | | | | | | | | | | |
| | | Pavlovce n/Uh, bažan | | | | | | | | | | | | | | |
| | | Stretava, ZPS | | | | | | | | | | | | | | |
| | | Stretava, Jedn. | | | | | | | | | | | | | | |
| | | Stretava, 194 | | | | | | | | | | | | | | |
| | | Stretava, 173 | | | | | | | | | | | | | | |
| | | Stretavka, 52 | | | | | | | | | | | | | | |
| | | Stretavka, most | | | | | | | | | | | | | | |
| | | Stretavka, osad | | | | | | | | | | | | | | |
| 10 | 22 | Drahňov, 89 | 750 | 952 | 1207 | 1212 | 1252 | 1417 | 1517 | 1547 | 1547 | | 1637 | 1647 | 1725 | 1837 |
| 11 | 23 | Drahňov, 211 | 751 | 953 | 1208 | 1213 | 1253 | 1418 | 1518 | 1548 | 1548 | | 1638 | 1648 | 1726 | 1838 |
| 11 | 23 | Drahňov, 22 | 752 | 954 | 1209 | 1214 | 1254 | 1419 | 1519 | 1549 | 1549 | | 1639 | 1649 | 1727 | 1839 |
| 13 | 25 | Drahňov, rázc. | 755 | 957 | 1212 | 1217 | 1257 | 1422 | 1522 | 1552 | 1552 | | 1642 | 1652 | 1730 | 1842 |
| 18 | 30 | Veľ. Raškovce, 2 | 800 | 1002 | 1219 | 1220 | 1300 | 1425 | 1529 | 1559 | 1555 | | 1646 | 1654 | 1734 | 1847 |
| 18 | 30 | Veľ. Raškovce, Jedn. | 801 | 1003 | 1220 | 1221 | 1301 | 1428 | 1530 | 1558 | 1558 | | 1648 | 1655 | 1735 | 1850 |
| | | M. Raškovce, MS | | | | | | | | | | | | | | |
| 21 | 33 | Z. Kopačany, 58 | 804 | 1006 | 1222 | 1224 | 1304 | 1431 | 1532 | 1532 | 1601 | | 1651 | 1658 | 1737 | 1853 |
| | | Oborín, Centrum | | | | | | | | | | | | | | |
| | | Malčice, 139 | | | | | | | | | | | | | | |
| | | Oborín, PD | 807 | 1008 | 1223 | 1227 | 1305 | 1432 | 1534 | 1534 | | | 1652 | 1702 | | |
| 23 | 35 | Oborín, Kucany | 808 | 1010 | 1225 | 1228 | 1306 | 1434 | 1535 | 1535 | | | 1654 | 1703 | | |
| | | Petrikovce, 16 | | | | | | | | | | | | | | |
| | | Brehov, r.Biň. | | | 1230 | | 1312 | 1439 | 1540 | 1540 | | | 1659 | | | |
| | | Brehov, kult. dom | | | 1235 | | | | | | | | 1645 | | | |
| | | Brehov, r.Biň. | | | | | | | | | | | 1647 | | | |
| | | Brehov, č.d.187 | | | | | | | | | | | | | | |
| | | Cejkov, č.365 | | | | | | | | | | | 1654 | | | |
| | | Cejkov, č.d.307 | | | | | | | | | | | 1656 | | | |
| | | Cejkov, č.263 | | | | | | | | | | | 1657 | | | |
| | | Cejkov, Jedn. | | | | | | | | | | | 1658 | | | |
| | | Cejkov, c.365 | | | | | | | | | | | | | | |
| | | Z. Jastrabie, 186 | | | | | 1314 | 1441 | 1542 | 1542 | | | | | | |
| | | Z. Jastrabie, OU | | | | | | 1442 | 1543 | 1543 | | | | | | |
| | | Z. Jastrabie, Jedn. | | | | | | 1443 | 1544 | 1544 | | | 1701 | | | |
| | | Z. Jastrabie, OU | | | | | | 1444 | 1545 | 1545 | | | 1702 | | | |
| | | Z. Jastrabie, 186 | | | | | | 1445 | 1546 | 1546 | | | 1703 | | | |
| 29 | 41 | Brehov, r.Biň. | 813 | 1014 | 1238 | 1242 | 1316 | | | | | | 1707 | 1708 | | |
| 30 | 42 | Simík, Stred obce | 815 | 1017 | 1241 | 1245 | 1318 | | | | | | 1710 | 1709 | | |
| 30 | 42 | Simík, č.d.115 | 816 | 1019 | 1243 | 1247 | 1319 | | | | | | 1711 | 1711 | | |
| 33 | 45 | Hran, 241 | 820 | 1023 | 1245 | 1250 | 1322 | | | | | | 1715 | 1714 | | |
| 33 | 45 | Hran, 146 | 822 | 1025 | 1247 | 1252 | 1324 | | | | | | 1717 | 1716 | | |
| 35 | 47 | Hran, DPLr | 824 | 1027 | 1248 | 1254 | 1326 | | | | | | 1718 | 1717 | | |
| | | Novosad, 116 | | | | | | | | | | | | | | |
| | | Kašov | | | | | | | | | | | | | | |
| | | Novosad, 116 | | | | | | 1447 | 1548 | 1548 | | | | | | |
| | | Novosad, nak.stred | 828 | 1031 | 1254 | 1300 | 1330 | 1448 | 1549 | 1549 | | | 1722 | 1721 | | |
| | | Novosad, 116 | | | | | | | | | | | | | | |
| 41 | 53 | Zempl. Branc, 1 | 831 | 1034 | 1258 | 1304 | 1336 | 1451 | 1552 | 1552 | | | 1726 | 1724 | | |
| 44 | 55 | Kozuchov, Op.úr. | 834 | 1037 | 1301 | 1307 | 1339 | 1454 | 1555 | 1555 | | | 1729 | 1727 | | |
| 46 | 57 | Z. Hradište, rázc. | 836 | 1039 | 1303 | 1310 | 1341 | 1456 | 1557 | 1557 | | | 1732 | 1730 | | |
| 53 | 65 | Trebišov, pekar. | 840 | 1043 | 1308 | 1313 | 1344 | 1458 | 1600 | 1600 | | | | 1732 | | |
| 53 | 65 | Trebišov, nemocnica | 842 | | 1310 | | | | 1602 | 1602 | | | 1738 | 1734 | | |
| 53 | 65 | Trebišov, OU | 844 | 1045 | 1312 | 1315 | 1346 | 1500 | 1604 | 1604 | | | 1740 | 1735 | | |
| 53 | 65 | Trebišov, Dom nábyt. | 846 | 1047 | 1314 | 1318 | 1348 | 1502 | 1606 | 1606 | | | 1741 | 1737 | | |
| 53 | 65 | Trebišov, AS | 848 | 1049 | 1316 | 1320 | 1350 | 1504 | 1608 | 1608 | | | 1743 | 1739 | | |

10 - premáva v pracovné dni počas škol. vyučovania

11 - premáva v pracovné dni počas školských prázdnin

21 - nepremáva : 24., 25.12., 31.12. a 31.3.

22 - nepremáva 31.12.

▲ - na spoj 5 nadväzuje spoj 811428/34 na zastávke Brehov,rázc.Biňov

△ - spoj 34 čaká na príchod spoja 811428/5 na zastávke Brehov,rázc.Biňov najviac 2 min.

M-spoj 4 pokračuje na 807411/22 Michalovce Terminál

M-spoj 26 pokračuje na 811416/55 Košice, AS

M-spoj 55 pokračuje na 811429/28 Oborín, Centrum

M-spoj 98 pokračuje na 811410/19 Košice, AS

M-spoj 100 pokračuje na 807417/32 Michalovce Terminál

M-spoj 208 pokračuje na 811402/74 Trebišov, AS