

2009 IACC Request for Information:

Updating the Interagency Autism Coordinating
Committee Strategic Plan for Autism Spectrum
Disorder (ASD) Research

Analysis of Responses

Prepared by:

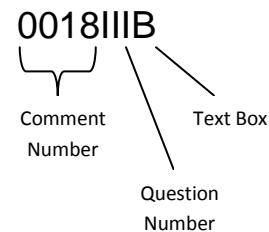
Office of Autism Research Coordination, NIH

Introduction: Analysis of Public Comments Received in Response to the 2009 IACC RFI

The IACC issued a formal Request for Information (RFI) to solicit public input to inform the 2010 update of the Strategic Plan. During the four-week comment period (July 23 – August 21, 2009), members of the public provided input on missing and underrepresented research topics or knowledge areas in the current plan, potential new research opportunities, and suggestions for prioritizing the Strategic Plan research objectives.

The IACC received a total of 290 submitted RFI responses. Individual respondents included people self-identified with ASD; parents or relatives of a person with ASD; professionals involved in the diagnosis, care, and/or education of people with ASD; and researchers in ASD and other fields. Examples of organizations that responded included state autism societies; state and local ASD service providers; ASD-specific foundations; advocacy organizations; and professional organizations. Respondents shared from their day-to-day experiences with ASD and expressed a great diversity of opinions and perspectives.

The Office of Autism Research Coordination analyzed the RFI responses received and extracted the following list of key concepts that correspond to each question of the 2009 IACC Strategic Plan. Reference numbers are provided as endnotes to allow the reader to find the individual comments pertaining to each concept in the full text RFI responses. The comment number is followed by the question number (I, II, III, etc.), and the specific text box (A – gaps, B – opportunities, C – priorities), to which the comment was submitted. For example:



Question I: When Should I Be Concerned?

Diagnosis

1. Identify behavioral markers for ASD that would provide early indication of risk.¹
2. Evaluate the impact of early diagnosis on later development.²
3. Investigate amount of time between parents' first concerns and diagnosis.³
4. Determine the earliest possible age of diagnosis.⁴
5. Investigate factors which contribute to delayed diagnosis and its effects.⁵
6. Develop standard counseling for parents after their child's diagnosis.⁶
7. Diagnose ASD as a medical condition that can affect multiple organ systems, and not simply as a neurological disorder or mental illness.⁷
8. Investigate the psychological impact of the autism "label" for high-functioning individuals.⁸

Screening and Diagnostic Instruments

9. Develop standard early behavioral screening tools to assess children for ASD at 12 months of age or younger.⁹
10. Develop diagnostic tools for high-risk infants.¹⁰
11. Develop better tools to assess skill levels in children with ASD (e.g., cognitive skills, social skills, sensory integration abilities).¹¹
12. Develop tools for better adolescent and adult diagnosis, in addition to more sensitive tools to diagnose high-functioning individuals.¹²
13. Develop comprehensive tools to predict social, medical, and behavioral outcomes for people with ASD.¹³
14. Assess the effectiveness of current diagnostic tools.¹⁴
15. Increase use of the M-CHAT (Modified Checklist for Autism in Toddlers).¹⁵
16. Develop clinical guidelines to screen for risk factors, including family history of ASD.¹⁶

Genetic Markers and Biomarkers

17. Identify biomarkers (biological substances that could be used to diagnose ASD) for early diagnosis (e.g., specific proteins, sulfur metabolites, markers related to mitochondrial dysfunction and immune function).¹⁷
18. Develop genetic screening techniques to aid early diagnosis, (including prenatal tests).¹⁸
19. Consider the ethical implications of genetic screening.¹⁹
20. Develop genetic counseling techniques once genetic screening is available.²⁰

Epidemiology and Surveillance

21. Continue to monitor the prevalence of ASD and investigate differences in prevalence rates among specific subpopulations.²¹
22. Increase funding to study siblings of autistic children (the Baby Siblings Early Surveillance project), with regard to general outcomes, genetic risk factors, and potential biomarkers.²²
23. Determine the extent to which changes to diagnostic criteria contributed to the increase in cases of ASD.²³

Training and Dissemination

24. Disseminate screening tools for parents and clinicians.²⁴
25. Educate the public on early identification of ASD, (e.g., parents, educators, child care providers, etc.).²⁵
26. Improve pediatrician training to screen and diagnose ASD.²⁶

Question II: How Can I Understand What is Happening?

Basic Biology of ASD

1. Study brain function and development in ASD, including underlying neural connectivity, mirror neurons, norepinehrine and other neurotransmitters, adrenal function, and the role of the blood-brain barrier.²⁷
2. Investigate auditory processing, speech development, social decoding, and sensory-motor dysfunction in people with ASD.²⁸
3. Examine changes to the brain after implementing different therapeutic approaches.²⁹
4. Study the affect of environmental chemicals on neural development in ASD.³⁰
5. Investigate caregivers' influence on early neural development.³¹
6. Conduct genetic and biological studies of siblings of people with ASD.³²
7. Expand stem cell research of ASD.³³
8. Study metabolic and mitochondrial disorders, inflammation, and oxidative stress as they relate to vaccination and ASD.³⁴

Models of ASD

9. Develop and use non-human primate models and other animal models of ASD.³⁵
10. Develop and use cellular and molecular models for therapeutic studies of ASD.³⁶

Biobanks

11. Create and maintain large-scale biobanks of collected and phenotyped tissues, including brain and stem cells.³⁷
12. Use large research networks to increase the collection of biomaterials, and create centralized methods for collection, storage, and distribution.³⁸
13. Reduce emphasis on biobanking.³⁹

Special Populations and Subgroups

14. Differentiate subtypes of ASD and compare their progression across the lifespan.⁴⁰
15. Prioritize research on non-verbal and low-communicating ASD patients (i.e., genetics, behavioral markers, augmentative communication techniques).⁴¹
16. Expand research on specific subgroups (e.g., regressive autism, individuals who have lost their diagnosis, individuals with severely impaired sensory and motor function) and special populations (e.g., females and racial minorities).⁴²

Co-occurring Conditions

17. Investigate co-occurring conditions such as food allergies, epilepsy, autoimmune disorders, metabolic dysfunction, sleep issues, and heavy metal toxicity.⁴³
18. Investigate the relationship between food allergies and ASD, and standardize food allergy testing.⁴⁴
19. Investigate the relationship between gastro-intestinal dysfunction and ASD.⁴⁵
20. Research association between ASD and other disorders, including Alzheimer's disease, Fragile X, and Down's syndrome.⁴⁶

Question III: What Caused This to Happen and Can This Be Prevented?

Genetic and Biological Risk Factors

1. Identify additional genetic risk factors for ASD.⁴⁷
2. Study simplex families and infant siblings to determine genetic risk factors.⁴⁸
3. Study immune factors which may contribute to ASD risk.⁴⁹
4. Identify risk factors for specific subtypes of ASD (e.g., low-functioning, non-verbal, regressive).⁵⁰
5. Investigate epigenetic changes which may contribute to ASD, (i.e., changes which affect gene expression without changing the underlying DNA structure).⁵¹
6. Investigate the role of gene-environment interaction.⁵²
7. Reduce focus on genetic risk factor research.⁵³

Environmental Risk Factors (Apart from vaccines)

8. Study the role of various environmental factors (diet, vitamin deficiency, geographic location, allergens, infections, environmental toxins, mercury and other heavy metals, chemicals, antibiotics, prescription medications, pesticides, air and water pollutants).⁵⁴
9. Investigate sources of mercury in the environment (e.g., dental fillings, fish, drinking water) and their relationship to ASD.⁵⁵
10. Investigate birth factors including the use of reproductive technology (e.g., in vitro fertilization), prenatal care, ultrasound exposure, cord clamping, and the use of pitocin/oxytocin during labor, as risk factors for ASD.⁵⁶
11. Investigate the relationship between low birth weight and prematurity with ASD.⁵⁷
12. Investigate critical periods of development when children may be more vulnerable to environmental triggers.⁵⁸
13. Investigate the interactions between different environmental risk factors.⁵⁹

Environmental risk factor – Vaccines

14. Investigate the relationship between vaccines and vaccine components (including thimerosal) and the development of ASD; and explore potential mechanisms for vaccine injury (e.g., damage to metabolic pathways, oxidative stress, inflammatory disease, mitochondrial and immune dysfunction, related infections, changes in methylation status of DNA).⁶⁰
15. Conduct an independent study comparing autism rates (and other health outcomes) in vaccinated vs. unvaccinated populations, as recommended by the National Vaccine Advisory Committee (NVAC) Safety Working Group.⁶¹
16. Investigate specific groups who may be predisposed for vaccine injury due to specific genetic or medical conditions.⁶²
17. Examine vaccine schedule and the effects of receiving multiple vaccines together, as associated with ASD.⁶³
18. Add vaccine safety research objectives to the IACC Strategic Plan for ASD.⁶⁴
19. Restore vaccine initiatives to the Strategic Plan.⁶⁵
20. Provide additional funding to the National Children's Study to collect medical records with vaccine information to study health outcomes (including ASD).⁶⁶
21. Conduct vaccine risk studies on animal models.⁶⁷
22. Re-examine the validity of studies showing no effect between vaccines and autism.⁶⁸
23. Stop pursuing vaccine research.⁶⁹

Question IV: Which Treatments and Interventions Will Help?

Treatments and Interventions

1. Launch research projects that identify effective interventions for core symptoms of ASD.⁷⁰
2. Conduct studies of the effectiveness and safety of widely-used interventions, (including behavioral, developmental, pharmacologic, and biomedical interventions), as well as comparative effectiveness studies.⁷¹
3. Develop intervention alternatives to currently used treatment protocols (behavioral, social, biomedical or pharmacologic).⁷²
4. Conduct research to determine which interventions will produce the best individual outcomes, and develop sensitive outcome measures.⁷³
5. Develop and evaluate the efficacy of early intervention programs.⁷⁴
6. Research and develop intervention strategies that address deficits in ASD sensory and motor processing.⁷⁵
7. Speed the application of intervention research into practice.⁷⁶
8. Consider the experience of people and families living with ASD, as well as the people treating ASD, in the treatment and research process.⁷⁷

Biomedical Treatments and Other Complementary and Alternative Practices

9. Investigate the efficacy and safety of complementary and alternative medical and biomedical interventions, including dietary supplements, gluten-free, casein-free diets, chiropractic treatment, hyperbaric oxygen chambers, and chelation.⁷⁸
10. Evaluate alternative therapies like art, music, swimming, and hippotherapy.⁷⁹
11. Reduce emphasis on complementary and alternative medical and biomedical interventions and treatments.⁸⁰

Behavioral Interventions and Treatments

12. Evaluate the efficacy of behavioral therapies apart from Applied Behavioral Analysis (ABA).⁸¹
13. Research, develop, and disseminate interventions that therapeutically utilize social and familial interactions, such as Relationship Developmental Intervention (RDI).⁸²
14. Develop and assess interventions to teach life skills and improve social relationships.⁸³

Pharmaceutical Interventions

15. Evaluate the long-term effects and adverse complications of risperidone and other antipsychotic medications.⁸⁴
16. Develop treatments for co-morbid disorders and conditions and evaluate pharmacotherapies used to treat epilepsy in people with ASD.⁸⁵
17. Reduce emphasis on pharmacologic interventions and treatments.⁸⁶

Dissemination and Education

18. Disseminate information to caregivers and the public on early interventions strategies and intervention research advances.⁸⁷
19. Develop best practices and scientific standards for research and interventions.⁸⁸
20. Develop comprehensive databases of treatments and interventions that include information on intervention effectiveness.⁸⁹

Special Populations and Subgroups

21. Research and develop interventions and screening tools that target the heterogeneous components and subtypes of ASD.⁹⁰
22. Conduct studies and develop interventions aimed at addressing the needs of the non-verbal ASD community, including their inclusion in research studies and the development of assistive and facilitated communication technologies.⁹¹

Question V: Where Can I Turn for Services ?

Access to Services

1. Increase the availability of community-based services (e.g., adult services, respite care, day programs, educational services, transportation services, housing services, medical services, dental care); and do so as quickly as possible.⁹²
2. Evaluate and improve the quality of available services across states.⁹³
3. Identify barriers to adopting and implementing evidence-based services, particularly in rural areas.⁹⁴
4. Simplify and coordinate the service system and evaluate different state systems to determine effective models.⁹⁵
5. Improve access to psychological services for people with ASD and their families, (including psychiatrists trained to prescribe medication for children with ASD).⁹⁶
6. Improve availability of supervisory care for adolescent children with ASD, particularly for low-functioning individuals.⁹⁷
7. Study patterns of service use in communities and the relationship between the likelihood of diagnosis and the availability of services.⁹⁸
8. Give higher priority to services research and involve people with ASD when researching service efficacy.⁹⁹

Service Providers

9. Increase the number of service providers and improve provider training to work specifically with individuals with ASD.¹⁰⁰
10. Study emotional exhaustion in service providers and what factors contribute to staff longevity.¹⁰¹
11. Develop a rating system for service providers that evaluates their credentials, training, adherence to treatment guidelines, and parental feedback; and make ratings available in a public database.¹⁰²

12. Use service providers who work in the community to drive services research, rather than relying on outside researchers.¹⁰³

Service Resources

13. Improve communication with families about how to access services and better publicize available resources and research advances.¹⁰⁴
14. Develop a comprehensive guide or website to help navigate state service systems and insurance coverage.¹⁰⁵
15. Connect parents with professional advocates who have undergone training to help families locate and access services.¹⁰⁶
16. Connect recently diagnosed families with parent groups and advocacy organizations.¹⁰⁷
17. Link to the “State of the State” reports from the IACC website.¹⁰⁸

Adult Services

18. Improve the availability of adult services, for a range of abilities across the spectrum, including supported employment, job placement, housing services, continuing education, transportation services, and rehabilitative services.¹⁰⁹
19. Evaluate which career skills training, job placement, and job supports help people with ASD find and retain employment; and coordinate with businesses to fill position which are suited to the skills of people with ASD.¹¹⁰
20. Research how to perform effective transition planning and which transition services lead to the best outcomes.¹¹¹
21. Include assessment of adult services in the “State of the State” report.¹¹²
22. Conduct research focusing on delivering services that allow people to live in non-segregated communities.¹¹³
23. Offer classes to improve self-esteem, self-advocacy skills, organizational, and leadership skills.¹¹⁴
24. Evaluate the effectiveness of community groups run by and for people with ASD, like the Asperger Adults of Greater Washington.¹¹⁵

Community Inclusion

25. Educate the public about ASD, particularly medical professionals, teachers, law enforcement officers, lawyers, judges, postal workers, employers and other members of the community who may interact with people on the spectrum on a daily basis.¹¹⁶
26. Provide services to support the needs of families affected by ASD and investigate family factors which affect treatment, services, and outcome for the family member with ASD.¹¹⁷
27. Study single-parent families of children with ASD and their support needs.¹¹⁸

Education Services

28. Improve quality of services received through the school system and increase the focus of school-based services to emphasize functioning as an independent member of society, not simply functioning in a school setting.¹¹⁹
29. Evaluate teacher training, teaching procedures, and curricula for teaching individuals with ASD.¹²⁰
30. Evaluate cost-effectiveness of providing cognitive therapy for students with ASD in the school setting.¹²¹

Financing Services

31. Improve insurance coverage for effective ASD services, including Applied Behavioral Analysis (ABA) therapies.¹²²
32. Investigate the cost-effectiveness of Relationship Development Intervention (RDI).¹²³
33. Study methods to reduce cost of services and examine the variability of service costs across the country.¹²⁴
34. Evaluate the financial impact of ASD on family finances.¹²⁵

Special Populations and Subgroups

35. Develop programs and services for people with ASD who are non-verbal or low-communicating, including alternative and augmentative communication tools.¹²⁶
36. Research best practices for including non-verbal individuals in a mainstream classroom.¹²⁷

37. Examine disparities in access and utilization of services by racial minorities and investigate how cultural factors affect service use.¹²⁸

Question VI: What Does the Future Hold?

ASD Across the Lifespan

1. Conduct longitudinal studies of outcome for people with ASD (including developmental trajectories, age-related illnesses, mortality, etc.).¹²⁹
2. Identify differences in how ASD manifests itself across the lifespan.¹³⁰

Adult Services/Transition Services

3. Research and provide transition services that will allow adults with ASD to live independently, as contributing members to society.¹³¹
4. Focus research on providing services to meet the needs of adults with ASD (housing, vocational opportunities, and meaningful recreation and community interaction); and develop best practices.¹³²
5. Develop transition services for people with ASD who wish to attend college.¹³³
6. Determine the minimal standard of knowledge and skills necessary for youths with ASD to capably navigate the adult service system.¹³⁴
7. Train adult service providers and establish minimal competency requirements.¹³⁵
8. Use the life experience of adults with ASD, at all levels of functioning, to guide future research.¹³⁶
9. Provide services (such as mentoring) for people with ASD to help them find and retain jobs.¹³⁷
10. Help employers cultivate the skills that make people with ASD good at analytic occupations where little social interaction is necessary.¹³⁸

Quality of Life and Acceptance

11. Celebrate neurological diversity by focusing on the positive attributes of people with ASD and deemphasizing the focus on achieving a “normal” level of functionality or cure.¹³⁹

12. Work to combat feelings of isolation and loneliness by establishing meaningful community integration programs and improving overall quality of life.¹⁴⁰
13. Educate the public on ASD to foster acceptance and inclusion, and conduct more research on the topic.¹⁴¹
14. Develop evidence-based safety training for adults with ASD.¹⁴²

Special Populations and Subgroups

15. Research strategies for helping non-verbal and low-communicating adults become self-sufficient and/or lead meaningful lives.¹⁴³

Planning for the Future

16. Assist parents/caretakers in planning for their child's future after the caretaker's death.¹⁴⁴

Dissemination and Resources

17. Develop and make available merged or linked databases for tracking the involvement of people with ASD in research studies.¹⁴⁵
18. Collect prenatal and postnatal medical records for children with ASD to investigate health outcomes.¹⁴⁶
19. Disseminate research findings to the public in understandable language.¹⁴⁷

Other Comments

Other Comments

1. Remove conflicts of interest from the research process.¹⁴⁸
2. Comments about the composition of the IACC.¹⁴⁹
3. IACC should solicit advice from outside individuals and organizations.¹⁵⁰
4. IACC should engage the public in the research and strategic planning process.¹⁵¹
5. Increase the sense of urgency surrounding ASD research goals.¹⁵²
6. Increase funding for all ASD research.¹⁵³
7. Revise the mission and vision statements for the IACC Strategic Plan.¹⁵⁴
8. Personal comments.¹⁵⁵

¹ 0018IB, 0049IA, 0052IA, 0052IB, 0052IC, 0105IA, 0131IC, 0146IA, 0146IC, 0176IC, 0187IA, 0131IA, 0133IA, 0133IC, 0173IA, 0262IA

² 0029IA, 0055IB, 440IA

³ 0074IA

⁴ 0510IA

⁵ 0210IB, 0323IA

⁶ 0176IB, 0176IC

⁷ 0018IIC, 0051VB, 0074.O, 0148VIB, 0154IIB, 0221.O, 0306IIA, 0312VB, 0353VA, 0353IIC, 0363.O, 0430VA

⁸ 0459IA, 0472IA, 0481IA, 0501IA

⁹ 0042IC, 0046IB, 0060IB, 0060IC, 0060.O, 0131IA, 0140VIA, 0148IC, 0152IC, 0152VIC, 0168.O, 0176IIA, 0181VIC, 0187IIA, 0187IIB, 0187IVB, 0318IB, 0324IC, 0390IIC, 0396IB, 0396IIB, 0396VIB, 0406IIB, 0440IIA, 0445IIB, 0455IC, 0463IIB, 0463IIC, 0473IVB, 0480IVA, 0505IIA, 0505IIC

¹⁰ 0455IA, 0455IB, 0519IB

¹¹ 0057IC, 0148IIC

¹² 0060IB, 0141IA, 0146IIB, 0168IIB, 0176IA, 0190IA, 194IC, 0210IA, 0236IIB, 0324IA, 0337IIA, 0455IIA, 0455IIC, 0502IC

¹³ 0035IB, 0210IA, 0131IC, 0146IIA, 0173IVA, 0176IVC, 0337IVA, 0340IVC, 0390IVA, 0390IVB, 0390IVC, 0390.O, 0417IVB, 0440IIA, 0466IVC, 0481IIB, 0485IIA, 0488IIC, 0488IVB, 0488.O

¹⁴ 0131IC, 0148IA, 0324IA, 0519IC

¹⁵ 0133IA

¹⁶ 0168IIIB, 0524IIIB, 0370IIIA

¹⁷ 0018IB, 0018IC, 0035IVB, 0037IB, 0047IC, 0052IIIA, 0052IIIB, 0052IIC, 0060IVB, 0061IVA, 0131IC, 0134.O, 0137IA, 0137IB, 0168IIB, 0168IIC, 0176IB, 0176VIB, 0194IIA, 0215.O, 0257IC, 0257IIB, 0257.O, 294IVC, 0356IA, 0406IIA, 0406IIB, 0406IIC, 0416IVA, 0505IIA, 0506IIIA, 0519IIIB

¹⁸ 0105IC, 148IC, 0244IC, 0370IIC, 0458IC

¹⁹ 048IB, 0244IC, 0472IB

²⁰ 0077IA, 0077IB

²¹ 0036IB, 0060IA, 0181IA, 0190B, 0368IA

²² 0125IA, 0194IB, 0368IA

²³ 0060IA, 0133IIC, 502IIC, 0519IA, 0524IIIB

²⁴ 0035IA, 0035IC, 0151IC

²⁵ 0049IB, 0052IB, 0052IC, 0151IA, 0151IB, 0176IA, 0257IA, 0302IC, 0385IC, 0403IB, 0411IC, 0446IA, 0474IC

²⁶ 0055IA, 0063IB, 0116IA, 0141IC, 0146IB, 148IB, 0210IA, 0222IA, 0222IB, 0249IA, 0309IA, 0323IB, 0363IA, 0366IA, 0385IC, 0403IB, 0408IA, 0408IB, 0408IC, 0445IA, 0502IA, 0408IIC

²⁷ 0013IIB, 0013IIIC, 0023IIB, 0054IA, 0060IIA, 0105IIB, 0140IIC, 0148IIIB, 0157IIIA, 0181IIA, 0194IIA, 0325IB, 0325IC, 0396IIB, 0437IIA, 0437IIB, 0437IIC, 0473IIIC, 0484IA, 0484IC

²⁸ 0013IIB, 0176VC, 210VA, 0325IA, 0356IA

²⁹ 0148VIA, 0157VIA, 0224VIC, 0280VIA, 0294VIA, 0396VIB, 0396IIB

³⁰ 0060IIA, 0137IIIC, 0140IIC

³¹ 0148IIIB

³² 0140IIC, 0181IIA

³³ 0194IIA, 0194IIB

³⁴ 0060IIIC, 0137IIIA, 0140IIC, 0509IIIB, 0521IIIC

³⁵ 0061IVB, 0105IIB, 0194IIC, 0194IIIA, 0505IIC

³⁶ 0061IVB, 0194IIC

³⁷ 0054IA, 0060IIA, 0194IIA, 0194IIB, 0194IVB, 0458IIC, 0473IVB, 0506IIA, 0506IIB

³⁸ 0506IIA, 0506IIB

³⁹ 0168IIC

⁴⁰ 0022IA, 0035IA, 0035IB, 0075IC, 0141IC, 0251IC, 0484IC

⁴¹ 0187IB, 0187IC, 0195IA, 0199IA, 0203IA, 0213IA, 0213IC, 0213IIIB, 0213IIIC, 0231IB, 0231IC, 0234IA, 0234IC, 0241IA, 0241IB, 0245IB, 0245IC, 0246IA, 0246IB, 0247IC, 0249IC, 0251A, 0255IC, 0256IA, 0256IC, 0256IA, 0256IC, 0262IA, 0262IB, 0268IA, 0269IA, 0269IB, 0269IC, 0270IA, 0276IA, 0276IB, 0294IA, 0294IB, 0294IC, 0294IIIC, 0297IA, 0297IB, 0297IC, 0300IB, 0300IIIA, 0333IA, 0034IA, 0347IA, 0347IA, 0347IC, 0347IIIA, 0354IIIA, 0386IA, 0386IB, 052IC, 0422IB, 0431IC, 0434IA, 0434IB, 0465IA, 0477IA, 0492IA, 0492IB, 0492IC

⁴² 0035IB, 0060IIIA, 0140VIA, 0194VIA, 0195IC, 0202IA, 0222VIB, 0242VIC, 0251IC, 0251VIA, 0262IB, 0268IA, 0268IB, 0268IC, 0302VIA, 0306IA, 0312IB, 0321IC, 0354IIIC, 0396VIB, 0406IA, 0430IA, 0430IB, 0430IC, 0430IIIA, 0430IIB, 0430IIIC, 0430VIA, 0440IA, 0440IC, 0458VIC, 0463IB, 0472IC, 0473VIB, 0484IA, 0519IA, 0521IIIA

⁴³ 0046IIA, 0052IIA, 0052IIB, 0059IIA, 0059IIB, 0059IVC, 0060IA, 0060IIA, 0060IVB, 0095IB, 0130IVA, 0133IIA, 0133IIB, 0137IIB, 0137IIIC, 0137IVB, 0137IVC, 0140IIC, 0140IVA, 0151IVA, 0161IVB, 0168IIC, 0181IIA, 0194IIB, 0221.O, 0257IIC, 0257.O, 0312IIA, 0312IIC, 0312IVC, 0322IB, 0322IC, 0322IIIB, 0322IVA, 0322IVB, 0322IVC, 0323IVA, 0323IVC, 0328IIA, 0328IIB, 0328IIC, 0343IIIA, 0345.O, 0350IVA, 0353IVA, 0366IIIB, 0366IVA, 0366IVB, 0366IVC, 0366VIA, 0367IIC, 0379IIB, 0406IIB, 0439IVA, 0445IIA, 0446IB, 0453IVB, 0453IVC, 0454IVB, 0463IIA, 0463IIC, 0463IVB, 0463IVC, 0500IVA, 0500IVC, 0506IVA, 0509IVA, 0519IIA

⁴⁴ 0046IIA, 0052IIA, 0105IIA, 0140IIC, 0366IA, 0366IB, 0366IC, 0494IIC

⁴⁵ 0046IIA, 0052IIA, 0060IIA, 0133IIA, 0140IIC, 0194IIB, 0257IIC, 0312IIA, 0312IIC, 0328IIA, 0328IIB, 0328IIC, 0367IIC, 0463IIA

⁴⁶ 0023IIB, 0181IIA, 0259IA

⁴⁷ 0046IIIB, 0046IIIC, 0063IIIC, 0095IB, 0116IIIB, 0151IIIB, 0406IA, 0524IIIA, 0406IA

⁴⁸ 194IIIB

⁴⁹ 0426IIIB, 0455IIIA

⁵⁰ 0200IIIA, 0202IIIA, 0222IIIA, 0245IIIA, 0270IIIA, 0276IIIA

⁵¹ 0140VIA

⁵² 0035IIIA, 0037IC, 0060IIIC, 0181IIA, 0140IA, 0151IIIA, 0194IIIB, 0202IIA, 0306IB, 0321IA, 0342IIIC, 0370IIIB, 0379IIB, 0445IIB, 0494IIB, 0519IIB, 0519IIC

⁵³ 0161IIIA, 0340IC, 0340IIIC, 0368IC, 0439IIIC, 0519IIIC

⁵⁴ 0013IIIA, 0013IIB, 0013IIC, 0013.O, 0018IIIB, 0023IIIA, 0037IIC, 0047IA, 0052IIIC, 0059IIB, 0060IIB, 0060IIIC, 0060IIIB, 0060.O, 0063IIIC, 0105IIA, 0116IIIA, 0131IIA, 0133IIIA, 0133IIB, 0134IIIA, 0137IIC, 0137IIIC, 0140IIIC, 0140VIA, 0146IIIA, 0151IIA, 0152IIIB, 0176IVB, 0203IIA, 0023IVB, 0246IIC, 0246IIIA, 246VIA, 0251IIIA, 0292IIIA, 0306IIA, 0306VIA, 0310IA, 0310IB, 0310IC, 0310IVC, 0312IIB, 0322IVA, 0322IVB, 0322IVC, 0345IVA, 0345IVC, 0345VIA, 0345.O, 0350IIIB, 0353IIIA, 0353IC, 0353.O, 0366IVA, 0366IVB, 0366IVC, 0366.O, 0367IA, 0367IC, 0367IIC, 0368VIC, 0376IVA, 0420IIIB, 0421IIC, 0436IIIB, 0453IIIA, 0454IIC, 0455IIIA, 0455IB, 0458IIIB, 0485IIIA, 0493IVB, 0494IIC, 0500IIIC, 0500IVA, 0505IIC, 0509IA, 0512IIIA, 0512.O, 0514IIA, 0514IIB, 0514IIC, 0514IVA, 0514IVB, 0514IVC, 0514VIA, 0514.O, 0518IIIB, 0519IIIA, 0519IIB, 0519IIC, 0519IIIB, 0519.O

⁵⁵ 0343IIIC, 0420IIIA, 0429IIIA, 0429IIIC

⁵⁶ 0013IA, 0013IB, 0013IC, 0013IIA, 0013IIB, 0029IIIA 0046IIIA, 0105IIIC 0139IIIA, 139IIIB, 139IIIC, 0148IVB, 0148IVC, 0153IA, 0153IB, 0153IC, 0153IIA, 0153IIB, 0153IIC, 0153IIIA, 0153IIIC, 0153IVA, 0153IVB, 0153IVC, 00153VB, 0153.O, 0237IIIA, 0237.O, 0240IIIA, 0258IIIA, 0264IIIA, 0264IIIB, 0264IIIC, 0264.O, 0266IIIA, 0305IA, 0343IIIA, 0343IIIC, 0455IIIA

⁵⁷ 0368IB

⁵⁸ 0060IIIA, 0152IIIC, 00153IIIB, 0426IIIA, 0519IIIA

⁵⁹ 022IIIA

⁶⁰ 0037IIIA, 0038IIIA, 0038IIIC, 0047IA, 0047IC, 0047IIA, 0047IIIA, 0059IA, 0059IB, 0059IIA, 0059IIB, 0059IIIA, 0059IIIC, 0059IVA, 0059IVB, 0059IVC, 0059.O, 0060IIA, 0074IIA, 0095IA, 0095IB, 0129IIIA, 0133.O, 140IA, 0140IC, 0140IIC, 0140IIIB, 0151IIA, 0151IIIA, 0151IIIC, 0154IA, 0154IB, 0154IC, 0154IIA, 0154IIIB, 0154.O, 0161IIIB, 0181IB, 0246.O, 0292IIIB, 0302IA, 0302IB, 0302.O, 0307IA, 0307IB, 0307IC, 0307IIA, 0307IIB, 0307IIC, 0307IVA, 0307.O, 0310.O, 0315IC, 0321IC, 0321IIA, 0321IIB, 0322.O, 0328IIA, 0328IIB, 0328IIIC, 0336IIA, 0340.O, 0343IIIA, 0345IVC, 0345.O, 0349IIIA, 0350.O, 0353IIIC, 0360IVB, 0362IIIA, 0363IA, 0364.O, 0366IIA, 0366IIB, 0366IIC, 0367IB, 0368IIIB, 0379IIB, 0406IIA, 0406IIB, 0406IIIB, 0420IVA, 0420IVC, 0423IA, 0426IIIC, 0427.O, 0429IIIB, 0429.O, 0430IA, 0430IIB, 0430IIC, 0436IIIA, 0453IIIC, 0454IB, 0454IC, 0454IVA, 0454IVC, 0454.O, 0461C, 0461IIA, 0461.O, 0473IIIA, 0493IB, 0493IC,

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⁶¹ 0024IIIA, 0059IIA, 0059IIB, 0059IIC, 0059VIb, 0074IIIB, 0102IIIC, 0102VIa, 0102.O, 0154VIa, 0246IIB,
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⁶³ 0102IIIA, 0161IIIB, 0177IIIA, 0376IIIA 0408IIIA, 0411IIIA, 0466IIIB, 0442IIIC, 0512IIIA

⁶⁴ 0060IIIA

⁶⁵ 0323IIIB, 0340IIIB, 0453IIIB, 0454IIIB, 0454IIIC, 0518IIIA, 0519IIIA

⁶⁶ 0519IIIB

⁶⁷ 0463IIIB

⁶⁸ 0038IIIB

⁶⁹ 0042IIIA, 0173IIIC, 0335IIIA, 0335.O, 0374IVB, 0481.O, 0524IIC

⁷⁰ 0016IB, 0016C, 0057IB, 0133IC, 0318IA, 0325IA, 0325IB, 0325IC, 0330IA, 0356IA, 0356IB, 0390IVA,
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⁷¹ 0014IVA, 0014IVB, 0017IVC, 0029IVA, 0052IVA, 0052IVB, 0052IVC, 0057IVA, 0060IVB, 0077IVA,
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⁷² 0014IVB, 0024IVB, 0035IVA, 0055IVB, 0060IVA, 0061IVA, 0095IVC, 0125IVA, 0130IVA, 0130IVB, 0131.O,
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⁷⁴ 0055IB, 0131IVC, 0133VA, 0148IB, 0173IVC, 0190IVA, 0246VC, 0294IVC, 0309IVB, 0324IVC, 0337VA,
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⁷⁵ 0013.O, 0014IVA, 0014IVC, 0105IVB, 0105IVC, 0141IVA, 0176IVB, 0176IVC, 0222.O, 0268IVA, 0268IVB,
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⁷⁶ 0432IIIC

⁷⁷ 0031IVA, 0031IVB, 0046IVA, 0049IIB, 0075IIB, 0075IIC, 0077IVA, 0102IVA, 0102.O, 0105IIB, 0133IIC,
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⁷⁹ 0095IVC, 0466IVA, 0466IVC, 0484IVA

⁸⁰ 0125IVA, 0335IVC, 0491IVC

⁸¹ 0396IA, 0437IVC, 0459VA, 0440IVA, 0440IVC, 0493VA, 0524IVA

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⁸³ 0035.O, 0168IVC, 0215IVC, 0244IVA, 0324IVA, 0325.O, 0361IVB, 0446.O, 0452.O, 0458IVC, 0520IA, 0520IB, 0520IC

⁸⁴ 0029VIA, 0244IVA, 0310IVA

⁸⁵ 0052VA, 0059VC, 0130IVA, 130IVB, 0312VB, 0322IIIC, 0385Va, 0396VB, 0440VC, 0130IVA, 130IVB

⁸⁶ 0013IVA, 0013IVB, 0416IVC

⁸⁷ 0035IVA, 0046IVB, 0046IVC, 0049IVB, 0052IVC, 0131IB, 0137IVA, 0157IVA, 0157IVB, 0173IVA, 0176IA, 0176IVA, 0177.O, 0199.O, 0210IVA, 0236IVA, 0275IVB, 0275IVC, 0281.O, 0309IVA, 0309IVC, 0324IVC, 0340IVB, 0363IVB, 0372IVA, 0374IVC, 0389IVC, 0442IVA, 0474IVA, 0474IVB, 0480IVB, 0481IVB, 0501IVC

⁸⁸ 0055IVC, 0125IVA, 0440IVA, 0440IVC, 0440IIC, 0463IIA

⁸⁹ 0052IVC, 0052.O, 0133IVC, 0149.O, 0194IVB, 0506IVA

⁹⁰ 0018IVA, 0035IVC, 0024IVA, 0054IIB, 0054IIC, 0054IVC, 0054.O, 0060IVB, 0074IVA, 0105IVC, 0119IVA, 0119IVB, 0130IVA, 0133IVA, 0149.O, 0161IVA, 0176IIA, 0194IIC, 0202.O, 0215IIA, 0244IIC, 0224IVA, 0224.O, 0231.O, 0235IVB, 0276IVA, 0297IIIA, 0298.O, 0312IIA, 0312IIB, 0329IVA, 0356.O, 0363IVA, 0367IIC, 0368IVB, 0390.O, 0400IVB, 0426IVA, 0429IVA, 0442IVB, 0449.O, 0453IVA, 0458IVC, 0463IIC, 0463IVA, 0519IVB, 0463IIA, 0367IIB, 0430IIA, 0312IIC, 0430IIB, 0430IIC, 0440IIC, 0446IIA, 0446.O, 502IIA, 0519.O

⁹¹ 0013IIB, 0013IVA, 0013IVB, 0016IVA, 0016IVB, 0016IVC, 0029IVA, 0046IIA, 0049.O, 0105IIC, 0119IVB, 0119IVC, 0140IIC, 0146IIB, 0176IVB, 0176.O, 0181IVA, 0187IVB, 0187IIA, 0187IIB, 0187IIC, 0187IVC, 0187IVA, 0187VC, 0187.O, 0194IIC, 0195IB, 0195.O, 0196IVA, 0199IVC, 0200IA, 0200IIA, 0200IVA, 0200.O, 0202IIA, 0202IIC, 0202IVA, 0203IVA, 0203IVB, 0203IVC, 0203.O, 0208IVA, 0208.O, 0209IVA, 0211IA, 0211IB, 0211IC, 0212IVA, 0212IVB, 0212IVC, 0213VA, 0224VA, 0231IA, 0213IB, 0213IIA, 0213IIB, 0213IVA, 0213IVB, 0213IVC, 0213VB, 0215IIIA, 0215IVA, 0215IVB, 0215IVC, 0215.O, 0219IVB, 0219IVC, 0221IVA, 0221IVB, 0221IVC, 0222IVA, 0222IVB, 0222.O, 0224IVA, 0224IVB, 0224IVC, 0224.O, 0226IB, 0226IC, 0227IVA, 0228IA, 0228IIA, 0228IIB, 0229IVA, 0229IVB, 0229.O, 0231IA, 0231IB, 0232IA, 0232IVB, 0234IB, 0235IVA, 0235IVB, 0235IVC, 0235.O, 0241IA, 0241IC, 0241IIA, 0241IIC, 0242IVA, 0242IVB, 0242IVC, 0243IVA, 0243IVB, 0243IVC, 0243.O, 0245IA, 0245IC, 0245IIB, 0245IIC, 0246IC, 0247IA, 0247IB, 0247IVA, 0247IVB, 0247IVC, 0248IA, 0249IB, 0249IC, 0251IIA, 0253IVA, 0255IA, 0256IB, 0256.O, 0259IC, 0259IVA, 0261IVA, 0262IVB, 0263IA, 0263IC, 0265IVA, 0268IIA, 0268IIB, 0268IIC, 0269IIA, 0269IIB, 0269IIC, 0269IVA, 0269IVC, 0269.O, 0270IIA, 0270IVA, 0270.O, 0276IIB, 0276VA, 0279VA, 0280IVA, 0280IVC, 0280.O, 0281IA, 0281IB, 0281IC, 0281IIB, 0281IIC, 0281IVA, 0281IVB, 0281IVC, 0281VA, 0281.O, 0285IVA, 0288IVA, 0293IVA, 0293IVB, 0293IVC, 0293.O, 0294IIA, 0294IIB, 0294IIC, 0294IVB, 0294IVC, 0294.O,

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⁹³ 0035VA, 105VA, 0131IB, 0131VC, 0141IIIB, 0149VA, 0176IIIB, 0236VB, 0356VA, 0176IIIA, 0176IIIC, 0318IIIB, 0427IVA, 0472IIIA, 0474IVA, 0480IVC, 0494IVA, 0494IVB, 0494IVC, 0510IVA, 0510IVB, 0510IVC, 0512IVB, 0514IVA, 0514IVB, 0514IVC

⁹⁴ 194VA, 0222VA, 0222VB, 0506VA

⁹⁵ 0055VA, 0055VB, 0168VA, 0190VA, 0385VA, 0388VA

⁹⁶ 0105VA, 0151VA, 0151VC, 0181VIB, 0337VA, 0246VB

⁹⁷ 0052VA

⁹⁸ 0131VC

⁹⁹ 0055VC, 0141VA, 0042VC, 0440VC

¹⁰⁰ 0029VA, 0042VC, 0105VA, 0385VA, 0059IVB, 0455IVA, 0474IVA, 0137IIA, 0168IIA

¹⁰¹ 0488VA

¹⁰² 0035VA, 0035VB, 0131VA, 0157VA

¹⁰³ 0133VC

¹⁰⁴ 0022.O, 0029.O, 0035IVA, 0046IVB, 0046IVC, 0049IVB, 0052IVC, 0052VA, 0052VB, 0105.O, 0137IVA, 0140IIC, 0149.O, 0151VA, 0157IIA, 0157IIIA, 0157IVA, 0157IVB, 0168VB, 0173IC, 0176IIA, 0184.O, 0210IIB, 0236IIA, 0236IIB, 0388VA, 0210IVA, 0309IVA, 0309IVC, 0324IVC, 0363IVB, 0374IVC, 0389IVC, 0442IVA, 0445.O, 0474IVA, 0474IVB, 0480IVB, 0481IVB, 0501IVC

¹⁰⁵ 0244VB, 0251VA, 0454VIB, 0512VB

¹⁰⁶ 0063VA, 0184VA

¹⁰⁷ 0049VA, 0102VA, 0125VA, 181VA, 0427VA, 0502VC

¹⁰⁸ 0168VC

¹⁰⁹ 0013VB, 0024VB, 0029VA, 0031IA, 0031IB, 0031VA, 0034VA, 0042VC, 005IC, 105VA, 0131IB, 0148VA, 0173VC, 0176IA, 0176IIC, 199VB, 0236VC, 0268VB, 0279VB, 0454VA, 0461VC, 0472VA, 0480VA, 0524VA, 0324IVC, 0454IVA

¹¹⁰ 0075VA, 0480VA

¹¹¹ 194VC, 210VA, 210VC

¹¹² 0210VC

¹¹³ 0472VC

¹¹⁴ 0075VC, 0484VC

¹¹⁵ 0077VB

¹¹⁶ 105VA, 105VC, 149VB, 0440VA, 0480VA

¹¹⁷ 0105VC, 0236VA, 0396VC

¹¹⁸ 0149VA

¹¹⁹ 0176VA 246VA, 0309VA

¹²⁰ 0151VIA, 0151VIC, 0474V

¹²¹ 0337VA

¹²² 0029IIC, 00031VA, 0037VA, 0037VA, 0074VA, 0077VA, 0116VA, 0116VC, 0151IIC, 0151VB, 0151VC, 0161VA, 0306VA, 0368VA, 0388IIB, 0421IIB, 0432VA, 0445IIC, 0454VA

¹²³ 0318VA

¹²⁴ 0368VC

¹²⁵ 0340VA, 0363VA

¹²⁶ 0187VA, 0199VA, 0213VB, 0224VC, 0235VA, 0235VB, 0235VC, 0281VA, 0281VC, 0347VA, 0375VA, 0392VA, 0521VA, 0392VC, 0409VB, 0422IIIA, 0422VB, 0480IIIA

¹²⁷ 0422VA

¹²⁸ 194VA

¹²⁹ 022VIA, 0042.O, 0054VIA, 0057.O, 0075.O, 0077VIA, 0137IIA, 0194IA, 0194VIA, 0195.O, 0202IIA, 0210IB, 0210IIA, 0215.O, 0236.O, 0318IIB, 0318IIC, 0325.O, 0337IA, 0361.O, 0368IIA, 0368IIB, 0368IIC, 0396IB, 0396IIB, 0396VIB, 0397IIA, 0403.O, 0442.O, 0481IIB, 0481VIC

¹³⁰ 0060IB, 0146IIB, 0210IIA, 0476IC

¹³¹ 0052VIA, 0052VIA, 0052VIC, 0131VIA, 0173VIB, 0176VC, 0190VIA, 0194VIC, 0210VA, 0242VIA, 0335VIC, 0367VIA

¹³² 0042VIA, 0055VIA, 0057VIA, 0075VIC, 0095VIA, 0105VIA, 0141VIC, 0149VIA, 0210VIC, 0236VIB, 0368VIB, 0454VIA, 0472VIA, 0494VIA, 0524VIA

¹³³ 0181VIA

¹³⁴ 0190VIA

¹³⁵ 0190VIB

¹³⁶ 0042VIB, 0047VIC, 0141VIB, 0168VIA, 0501VIB

¹³⁷ 0049VIB, 0459VC, 0472VIC

¹³⁸ 0049VIC, 0052VIA, 0077VIA, 0409VIA

¹³⁹ 0029IIIC, 0052VIB, 0054IIIA, 0075IA, 0075IIA, 0075IVA, 0075IVB, 0075IVC, 0077IIA, 0077IIIA, 0141IIIA, 0176IIA, 0268VIA, 0440IIIC, 0476IA, 0476IIA, 0476IIC, 0476IVB, 0476IVC, 0476VA, 0476.O, 0481IIA, 0481IIC, 0481IIIA, 0481IVC, 0481VC, 0481VIB, 0484IA, 0484IIIA, 0484VC, 0501IB, 0502IIC, 0502IIIB, 0524IIIA

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¹⁴¹ 0029IIA, 0029IIB, 0049IVA, 0075IIC, 0077IIB, 0097IVB, 0105VIA, 0105VIB, 0105VIC, 0140IVA, 0141VIA, 0149VIB, 0176IIB, 0176IIC, 0241IIB, 0353VA, 0374IVA, 0440VIA, 0472IIB, 0476IVA, 0481VIA, 0501VIA, 0501VIC, 0502IIC, 0510IIC

¹⁴² 194VIB

¹⁴³ 0222VIB, 0224VIA, 0232VIA, 0235VIB, 0235VIC, 0236VIC, 0242VIC, 0347VIA, 0354VIB, 0422VIA, 0431VIA, 0508VIA, 0508VIB, 0521VIC

¹⁴⁴ 0057VIA 0074VIA, 0077VIA, 0309VIB, 0363VIA, 0461VIA, 0493VIB

¹⁴⁵ 0060VIA, 0157VIA, 0519VIA

¹⁴⁶ 0060IIIB, 0153IIB, 0519IIB

¹⁴⁷ 0157IVA

¹⁴⁸ 0018.O, 0037.O, 0038.O, 0047IIC, 0047IVC, 0047.O, 0059IIA, 0059IIIA, 0059IVA, 0059IVB, 0059IVC, 0060IVA, 0097IVC, 0102.O

0307.O, 0312.O, 0316.O, 0323.O, 0329.O, 0341.O, 0353IIIC, 0362IIIA, 0363.O, 0364.O, 0367.O, 0373.O, 0376.O, 0377.O, 0399IIIA, 0406.O, 0420.O, 0421.O, 0429.O, 0430IIIC, 0443.O, 0493.O, 0494.O, 0500.O, 0512.O

0310IIA, 0310IIB, 0310IIC, 0367IIA, 0454IIA, 0307IIA, 0336IIA, 0366IIA, 0366IIB, 0366IIC, 0376IIA, 0406IIA, 0421IIA, 0505IIA, 0505IIB, 0505IIC, 0353IVC, 0420IVC, 0454IVC, 0519IVA

¹⁴⁹ 0023IA, 0054IB, 0054IC, 0054VC, 0059IA, 0059VA, 0059IB, 0312VC, 0321IA, 0336IA, 0336IC, 0345IB, 0376IB, 0376IC, 0406IB, 0406IC, 0485IA, 0485IB, 0485IC

¹⁵⁰ 0023IIC, 0023IVA, 0059IIC, 0060IVB, 0074IVA, 0151IIA, 0154IIC, 0154IVB, 0194.O, 0306IVB, 0306IVC,
0309.O, 0312IIA, 0312IVA, 0312IVC, 0312.O, 0335.O, 0350IVC, 0368.O, 0439IVC, 0440IIC, 0493IVC, 0493.O,
0519IVB

¹⁵¹ 0046.O, 0047.O, 0060IVA, 0060IVC, 0060.O, 0309.O, 0519IVA, 0519.O

¹⁵² 0017.O, 0023.O, 0095.O, 0161.O, 0315.O, 0408.O, 0420.O, 0421.O, 0439.O, 0463IIC, 0472.O, 0519IVC,
0519.O

¹⁵³ 0060.O, 0184.O, 0302IA, 0302IB, 0302IC, 0324.O, 0397IB, 0416.O, 0436.O, 0445.O

¹⁵⁴ 0519.O

¹⁵⁵ 0049IVC, 0063IIC, 0136.O, 0151IIB, 0151.O, 0152.O, 0157.O, 0173.O, 0241.O, 0244IVC, 0244.O, 0279.O,
0289IVA, 0289IVB, 0289IVC, 0294IVA, 0328.O, 0340IIC, 0369.O, 0399.O, 0403IVB, 0403IVC, 0455.O,
0474.O, 0485.O, 0492.O, 0512IIA